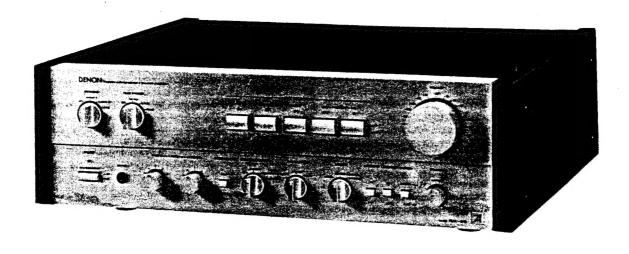
DENON

Hi-Fi Component Amplifier

SERVICE MANUAL MODEL PMA-970



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EQ. UNIT AUE-008B 9~12	
EQ. MUTING UNIT (SUX-025)	
POWER SUPPLY UNIT SUX-025	
POWER AMP UNIT PUX-027B	
POWER AMP UNIT PUX-027B	
POWER AMP UNIT PUX-027B	

NIPPON COLUMBIA CO., LTD.

SPECIFICATIONS

POWER AMPLIFIER SECTION (TUNER → SP OUT)

Circuit System:

All stage direct DC servo circuit

Rated Output Power:

Both channel drive

20 Hz to 20 kHz/100 W + 100 W (8 ohm

Load T.H.D. 0.003%)

1 kHz/80 W + 80 W (4 ohm Load T.H.D.

0.003%)

Total Harmonic

Distortion:

Less than 0.003% (20 Hz to 20 kHz)

Intermodulation

Distortion:

7 kHz/60 Hz: 1/4 lower than 0.005%

(at amplitude output equivalent to rated

output)

Power Band Width:

5 Hz to 100 kHz (IHF, T.H.D. 0.02%)

Transmission Characteristics: Input Sensitivity:

1 Hz to 400 kHz + dB (at 1 W output) 150 mV

input impedance: Output Impedance:

40 k ohm 0.08 ohm

Signal to Noise Ratio:

108 dB (input terminals short-circuited)

(IHFA Network) **Output Terminals:**

Speaker: A & B load: 4 - 16 ohm; A + B: 8 - 16 ohm (with impedance

change-over switch)

Headphone: for Stereo Headphone (with

impedance change-over switch)

PREAMPLIFIER SECTION

Equalizer Amplifier

Maximum Output: 18 V (at 50 k ohm

load)

(REC OUT Terminals):

Rated Output: 150 mV

Total Harmonic Distortion: Lower than

0.002% (at 1 kHz, 8 V output)

Input Sensitivity/Input

Impedance:

Output:

50 k ohm PHONO-1 MM 2.5 mV

MC 0.2 mV 100 ohm 50 k ohm PHONO-2 MM 2.5 mV TUNER 150 mV 40 k ohm

AUX, TAPE

150 mV 40 k ohm

Maximum Input Level:

PHONO-1 MM 300 mV (1 kHz)

MC 23 mV (1 kHz)

PHONO-2 MM 300 mV (1 kHz)

RIAA Deviation:

PHONO-1 MM within ±0.2 dB

(20 Hz to 100 kHz) MC within ±0.2 dB

(20 Hz to 100 kHz)

PHONO-2 MM within ±0.2 dB

(20 Hz to 100 kHz)

OVERALL CHARACTERISTICS

Signal-to-Noise Ratio: (IHF A Network)

PHONO-1 MM 90 dB

(input terminal short-circuited

with input of 2.5 mV)

MC 75 dB

(input terminal short-circuited

with input of 250 μ V)

TUNER TAPE AUX more than 108 dB

(input terminals short-circuited)

Tone Control Adjustable

Range:

RASS

100 Hz ±8 dB

TREBLE

10 kHz ±8 dB SUBSONIC 18Hz, 6 dB/oct

Filter Characteristic: Loudness Characteristics:

Low frequency 100 Hz + 7 dB

High frequency 10 kHz + 6 dB

-20 dB

Muting: **POWER**

REQUIREMENT:

Germany and France: AC 220 V, 50 Hz

AC 240 V, 50 Hz AC 120 V, 60 Hz USA:

POWER CONSUMPTION: 340 W (U.S.A.) 670 VA (Canada) (UL) (CSA)

800 W (at maximum output)

(IEC)

AC OUTLET

DIMENSIONS:

(for U.S. and Canada):

SWITCHED x 2, 100 W (total)

UNSWITCHED x 1, 250 W

506mm (W) x 168mm (H) x 451 mm (D) (including rubber feet, knobs and termi-

nals)

WEIGHT:

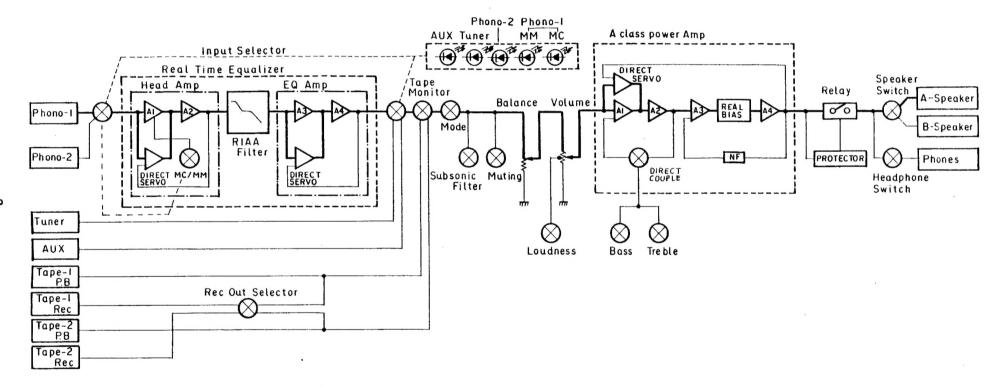
23.0 kg

Design and specifications subject to change without notice because

of improvement.

NOTE: The following codes correspond to the appropriate models.

E2 for Europe, EG for Germany, EF for France, EK for U.K.



-2-

METHOD OF ADJUSTMENT

NOTE: Before servicing PUX-027 POWER AMP P.C.B., be sure discharge Capacitor C1 and C2 (33,000μF) through resistor.
 N.B: When cross point of R213 and R214 (100kΩ) on PUX-027 POWER AMP is short circuited to ground, output from differential amplifier which consists of TR53 and TR54 (μPA68H) will stop, and usually no idle current exists in the

power transistor. Then, in the event excessive current, due to Class A bias circuit malfunction prior to TR53, 54 stage, exists at Power Transistors, ground the above mentioned cross point to locate the trouble.

1. PUX-027 (POWER AMP PCB) CLASS A BIAS CIRCUIT ADJUSTMENT

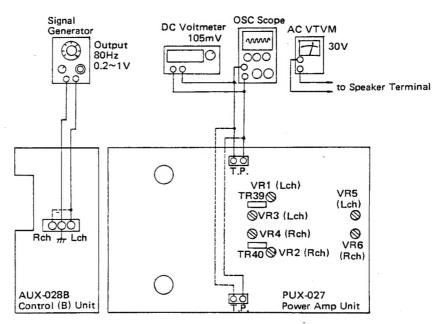


Fig. 1

- (1) Attenuator Balance Adjustment (Remove Equalizer Amp P.C.B.; AUE-008 and detach shield case so as the partsside of PUX-027 is visible).
- 1 Set each switch as per, POWER → off, VOLUME → - ∞ dB, MODE → normal LOUDNESS → off, MUTING → 0 dB, BALANCE → center

DIRECT COUPLE → direct, SPEAKERS → A+B

SP. IMP. → HIGH (BACK PANEL)

- 2 Connect measuring instruments as per, (Refer to Fig. 1.)
 - Signal generator to 9 10 11 terminals of AUX-028 (Control B).
 - Set the S.G. output to $0.2 \sim 1V$, 80Hz.
 - Connect DC voltmeter and Oscilloscope to T.P. terminals of PUX-027.
 - Connect AC voltmeter only to speaker terminal.
- 3 Turn power switch on. After one minute, adjust VR5 (L CH) and VR6 (R CH) so as DC voltage at T.P. terminal: shows
- 4 Connect bases of TR39 (L CH) and TR40 (R CH) (μPA77V) together.

Adjust VOLUME so as the voltage at speaker terminal shows 30V.

Observing Oscilloscope, adjust VR1 (L CH) and VR2 (R CH) so as AC voltage at T.P. terminals become mn imum (smaller than 10 mVp-p).

Then, remove the connection from bases of TR39 (L CH) and TR40 (R CH), and adjust VR3 (L CH) or VR4 P CH) so as AC voltage at T.P. terminals become minimum (smaller than 20 mVp-p).

- (2) Idling Current Adjustment (Set the unit upright, and do not remove bottom cover and EQ shield case.)
 - 1 Set each switch as per, POWER → off, VOLUME → - ∞ dB, SPEAKERS → off, SP. IMP → HIGH (BACK PANEL)
- 2 Connect DC voltmeter to T.P. terminals of PUX-027. (solder DC voltmeter leads to T.P. terminals, or use a pair of jig through available space between power radiator and EQ shield case to extend T.P. outward.)

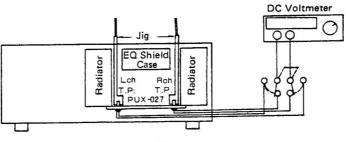
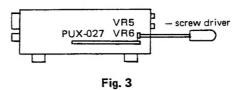


Fig. 2

3 Turn power switch on. After 2 to 5 minutes, adjust VR5 (L CH) and VR6 (R CH) so as the terminal voltage shows 105±5mV. Insert a — screwdriver through the holes on back panel to adjust VR5 and VR6.



2. EQUALIZER AMPLIFIER NEUTRAL ADJUSTMENT

- 1 Set each switch as per, PHONO-1 INPUT JACK → Insert Short Pin TAPE-1 REC INPUT JACK → Connect DC voltmeter INPUT SELECTOR → PHONO-1 MM REC OUT SELECTOR → off, POWER → off
- 2 Turn power switch on. After 10 seconds, set REC OUT SELECTOR to SOURCE, and after 3 minutes, adjust VR1 (L CH) and VR2 (R CH) on the Equalizer servo P.C.B. so as the DC voltage at REC terminal shows 0±0.5mV. (Refer to Fig. 4.)

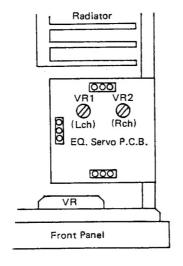


Fig. 4

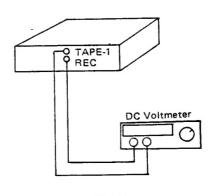


Fig. 5

PRECAUTION TO USE PMA970

1. RADIO RECEPTION

When connecting AM, FM tuner to the unit, it is preferable to place the tuner more than 10cm away from the PMA970 unit. It is especially true when the Field Strength is weak, since the small pulse noise from the PMA970 could be amplified in the tuner and come out through speaker.

2. SPEAKER IMPEDANCE MATCHING

Use care to match speaker system impedance to that of the Unit. Observe the table below.

Table 1

Impedance switching and speaker impedance Speaker switching	High	Low
System A	8 ~ 16Ω	4Ω
В	8~16Ω	4Ω
A+B	16Ω	Ω8

The unit is designed to work at Class A characteristic curve with the load impedance listed above. In the event the load impedance is low, bias current will increase and temperature of power transistors will rise.

- 2-1 To hook 8 to 16Ω speaker system, with speaker switch set to A or B, use "High".
- 2-2 To hook two pairs of 8Ω speaker systems, set speaker switch on the front panel to A+B, and set speaker impedance switch on the back panel to "Low".
- 2-3 To hook 4Ω speaker system, with speaker switch set to A or B, use "Low".
- 2-4 NEVER HOOK 4Ω speaker systems to A and B and operate A+B at the same time, or could invite power amplifier damage due to excessive current and heat rise.

Positively observe the instruction above. In the event of mismatching, protector flashes warning LED. Then, turn power switch off, and see to it and correct the mismatching.

3. PRECAUTION TO USE HEAD PHONE

Low, High is switchable to HEAD PHONE impedance, and also DIRECT switching to power amplifier is provided to fully use the best performance of HEAD PHONE. However, wrong connection could invite damage to ear as well as HEAD PHONE due to intense sound.

- 3-1 Always set Main Volome to MIN prior to use HEAD PHONE.
- 3-2 Set impedance switch to HEAD PHONE impedance. (100W + 100W output could be delivered to HEAD PHONE terminals, on Direct position)
- 3-3 Gradually turn Main Volume to the desired sound level.
- 3-4 When not using HEAD PHONE, be sure to set impedance switch to OFF or Low.

PROTECTOR AND PRINCIPLE OF FUNCTION

It provides a function to protect expensive speaker system from possible damage which due to power switch on/off surge, amplifier malfunction and abnormal temperature rise of the power radiator, by isolating the speaker system from power amplifier output.

It consists of an IC which covers all function. Refer to figure 6.

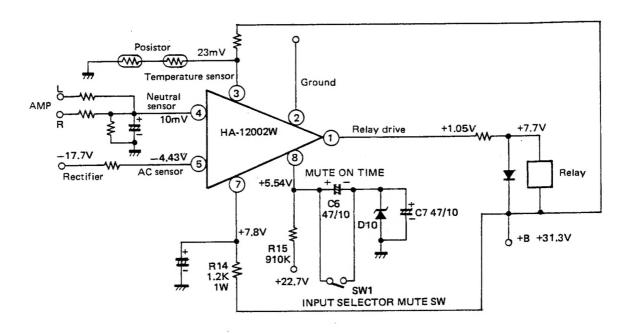


Fig. 6

Mute ON Time

PIN 8 of IC determines OFF/ON time of MUTING. Relay turns ON about $6 \sim 8$ seconds after the power sourceswitch turned on, according to time constant determined by R15, C6 and C7.

When power switch is turned on with MC, MM position, click output voltage from Equalizer is applied to PIN 4 of IC, and MUTING TIME is elongated, which delays MUTING TIME at the Main volume.

Also, when INPUT SELECTOR MUTE SW is pressed C6 is shorted momentarily, and 1.5V which determined by D 10, is applied to PIN 8 and activates the relay (OFF), and after about $1 \sim 2$ seconds, relay turns on in relative to charging time constant.

Neutral Sensor

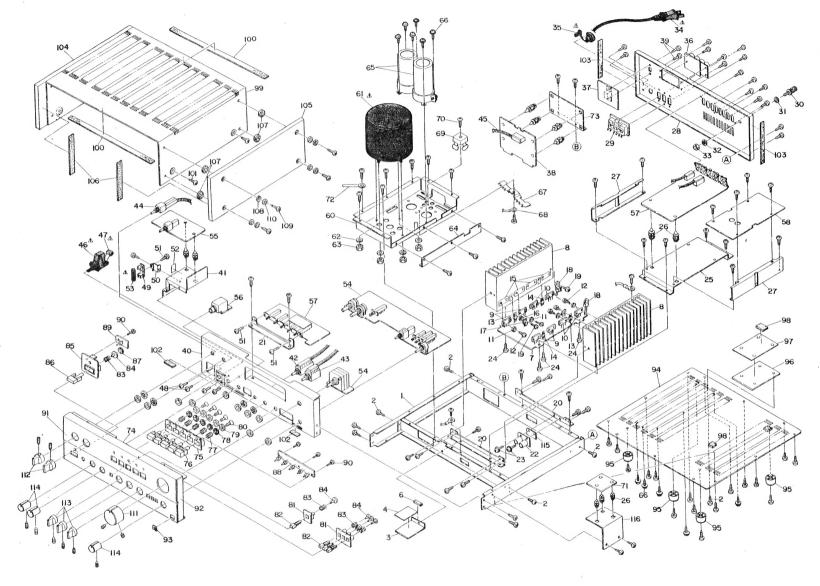
When more than ±1.2V DC is applied to Pin 4 of IC, the relay activates (OFF).

• Temperature Sensor

In the event RADIATOR temperature rises above 105°C, posistor activates the relay (OFF).

AC Sensor

When power switch turned off, voltage at Pin 5 of IC drops to 0, and activates relay (OFF).



All screws without symbol numbers are fixing screws (Refer to exploded view parts list Ref. No. 5).

NOTE:

ADDENDUM LIST

1440631009
2335247
2124202012
4450020005
206201600
105034300
EG for Germany

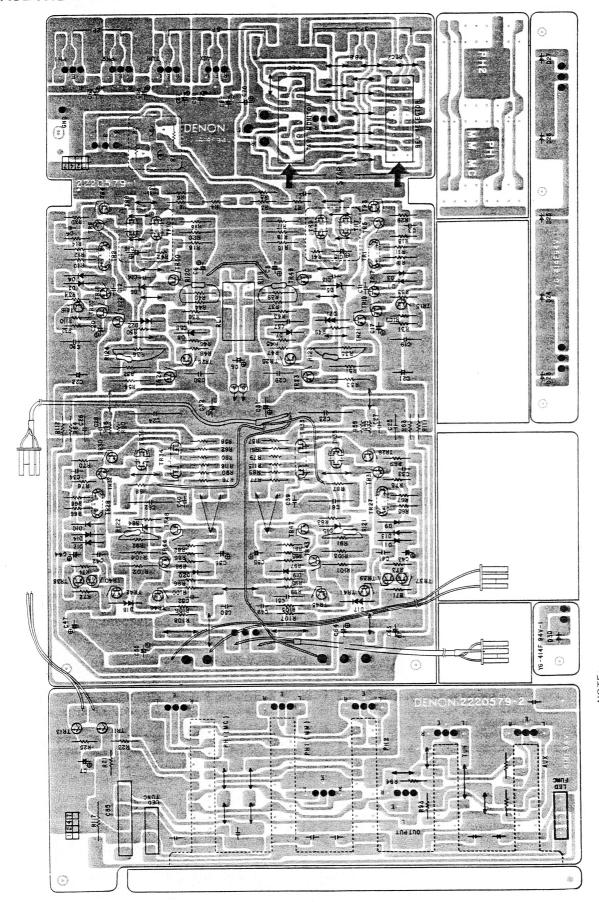
EXPLODED VIEW OF PARTS LIST

Part No. Part Name & Descriptions	
2 4730354035 TAPPING SCREW (2) 3×8 BLACK 3 4140206100 SHIELD PLATE 4 4150166104 INSULATING SHEET 5 4770064107 FIXING SCREW 6 — — — 7 PUX0027B POWER AMP UNIT	
3 4140206100 SHIELD PLATE 4 4150166104 INSULATING SHEET 5 4770064107 FIXING SCREW 6 — — — 7 PUX0027B POWER AMP UNIT	
4 4150166104 INSULATING SHEET 5 4770064107 FIXING SCREW 6 — — — 7 PUX0027B POWER AMP UNIT	
5 4770064107 FIXING SCREW 6 7 PUX0027B POWER AMP UNIT	
6 – – – 7 PUX0027B POWER AMP UNIT	
7 PUX0027B POWER AMP UNIT	
11 4751003006 3 WASHER 12 4700012006 CROSS PAN SCREW WITH S. WASHI	FR
3x12	
13 2730199027 TRANSISTOR 2SC2238(Y)/(O)	
14 2710104029 TRANSISTOR 2SA968(Y)/(O)	
15 4150180009 INSULATING SHEET	
16 4150182007 BUSH	
17 4410326008 HOLDER	
18 2760289004 DIODE PTH487A01BD222TS	
19 4700010008 CROSS PAN SCREW WITH S. WASHI	ER
3x8	
20 4120660203 RADIATOR BRACKET	
21 – –	
23 4700025006 -	
24 4730354019 TAPPING SCREW (2) 3x8	
25 4140202104 SHIELD PLATE	
26 MD-5271 P.C.B. SUPPORT	
27 4140204005 SHIELD BRACKET	
*28 1050343004 BACK PANEL	
29 – –	
30 2050043109 GND TERMINAL	
31 4700088002 4.1 WASHER	
32 4753100004 4 TOOTH WASHER	
33 4700006000 4 NUT	
33 4700006000 4 NUT △*34 2062016001 ACCORD	
33 4700006000 4 NUT	,
33 470006000 4 NUT ⚠*34 2062016001 AC CORD ∴*35 4450020005 CORD BUSH	7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-
33 470006000 4 NUT ↑ 34 2062016001 AC CORD ↑ 35 4450020005 CORD BUSH 36 SUX00253 SPEAKER TERMINAL UNIT	,
33 470006000 4 NUT ⚠*34 20620160011 AC CORD ⚠*35 4450020005 CORD BUSH 36 SUX00253 SPEAKER TERMINAL UNIT 37 SUX00254 IMPEDANCE SELECT UNIT	
33 470006000 4 NUT ↑34 2062016001 AC CORD ↑35 4450020005 CORD BUSH 36 SUX00253 SPEAKER TERMINAL UNIT 37 SUX00254 IMPEDANCE SELECT UNIT 38 SUX00251 POWER SUPPLY UNIT	***
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33 470006000 4 NUT ↑34 2062016001 AC CORD ↑35 4450020005 CORD BUSH 36 SUX00253 SPEAKER TERMINAL UNIT 37 SUX00254 IMPEDANCE SELECT UNIT 38 SUX00251 POWER SUPPLY UNIT 39 4711304033 CROSS PAN SCREW 3x8 40 4110223207 FRONT CHASSIS ASS. 41 4120658105 SHIELD BRACKET 42 2120164002 ROTARY REMOTE (A) SWITCH FOR TAPE MONITOR 44 2120161005 ROTARY REMOTE (C) SWITCH FOR TAPE MONITOR 45 4350045012 PUSH SWITCH 47 2518001007 OIL CAPACITOR 0.01µF 450WV CROSS PAN SCREW WITH S. WASHI 3x8 BLACK 49 2020013004 FUSE HOLDER 50 4120238130 BRACKET 51 4700009006 CROSS PAN SCREW WITH S. WASHI 3x6 52 5130159172 FUSE LABEL	R ≣R
33 470006000 4 NUT ↑34 2062016001 AC CORD ↑35 4450020005 CORD BUSH 36 SUX00253 SPEAKER TERMINAL UNIT 37 SUX00254 IMPEDANCE SELECT UNIT 38 SUX00251 POWER SUPPLY UNIT 39 4711304033 CROSS PAN SCREW 3x8 40 4110223207 FRONT CHASSIS ASS. 41 4120658105 SHIELD BRACKET 42 2120164002 ROTARY REMOTE (A) SWITCH FOR TAPE MONITOR 44 2120161005 ROTARY REMOTE (C) SWITCH FOR TAPE MONITOR 45 4350045012 PUSH SWITCH 47 2518001007 OIL CAPACITOR 0.01µF 450WV CROSS PAN SCREW WITH S. WASHI 3x6 52 5130159172 FUSE LABEL 53 2061015090 FUSE (5A)	R ≣R
33 470006000 4 NUT ↑34 2062016001 AC CORD ↑35 4450020005 CORD BUSH 36 SUX00253 SPEAKER TERMINAL UNIT 37 SUX00254 IMPEDANCE SELECT UNIT 38 SUX00251 POWER SUPPLY UNIT 39 4711304033 CROSS PAN SCREW 3x8 40 4110223207 FRONT CHASSIS ASS. 41 4120658105 SHIELD BRACKET 42 2120164002 ROTARY REMOTE (A) SWITCH FOR REC OUT 43 2120165001 ROTARY REMOTE (B) SWITCH FOR TAPE MONITOR 44 2120161005 ROTARY REMOTE (C) SWITCH FOR SPEAKER 45 4350045012 PUSH SWITCH 47 2518001007 OIL CAPACITOR 0.01µF 450WV CROSS PAN SCREW WITH S. WASHI 3x8 BLACK 49 2020013004 FUSE HOLDER 50 4120238130 BRACKET 51 4700009006 CROSS PAN SCREW WITH S. WASHI 3x6 52 5130159172 FUSE LABEL 53 2061015090 FUSE (5A) 54 AUX0028B CONTROL (B) UNIT	R ≣R
33 470006000 4 NUT ↑34 2062016001 AC CORD ↑35 4450020005 CORD BUSH 36 SUX00253 SPEAKER TERMINAL UNIT 37 SUX00254 IMPEDANCE SELECT UNIT 38 SUX00251 POWER SUPPLY UNIT 39 4711304033 CROSS PAN SCREW 3x8 40 4110223207 FRONT CHASSIS ASS. 41 4120658105 SHIELD BRACKET 42 2120164002 ROTARY REMOTE (A) SWITCH FOR REC OUT 43 2120165001 ROTARY REMOTE (B) SWITCH FOR TAPE MONITOR 44 2120161005 ROTARY REMOTE (C) SWITCH FOR SPEAKER 45 4350045012 PUSH SWITCH 47 2518001007 OIL CAPACITOR 0.01µF 450WV 48 4700042005 CROSS PAN SCREW WITH S. WASHI 3x8 BLACK 49 2020013004 FUSE HOLDER 50 4120238130 BRACKET 51 4700009006 CROSS PAN SCREW WITH S. WASHI 3x6 52 5130159172 FUSE LABEL 53 2061015090 FUSE (5A) 54 AUX0028B CONTROL (B) UNIT 55 SUX00252 PRE POWER SOURCE UNIT	R ≣R
33 470006000 4 NUT ↑34 2062016001 AC CORD ↑35 4450020005 CORD BUSH 36 SUX00253 SPEAKER TERMINAL UNIT 37 SUX00254 IMPEDANCE SELECT UNIT 38 SUX00251 POWER SUPPLY UNIT 39 4711304033 CROSS PAN SCREW 3x8 40 4110223207 FRONT CHASSIS ASS. 41 4120658105 SHIELD BRACKET 42 2120164002 ROTARY REMOTE (A) SWITCH FOR REC OUT 43 2120165001 ROTARY REMOTE (B) SWITCH FOR TAPE MONITOR 44 2120161005 ROTARY REMOTE (C) SWITCH FOR SPEAKER 45 4350045012 PUSH SWITCH 47 2518001007 OIL CAPACITOR 0.01µF 450WV 48 4700042005 CROSS PAN SCREW WITH S. WASHI 3x8 BLACK 49 2020013004 FUSE HOLDER 50 4120238130 BRACKET 51 4700009006 CROSS PAN SCREW WITH S. WASHI 3x6 52 5130159172 FUSE LABEL 53 2061015090 FUSE (5A) 54 AUX0028B CONTROL (B) UNIT 55 SUX00252 PRE POWER SOURCE UNIT HEADPHONE UNIT	R ≣R

the othe	r parts not includ	area in this not.
Ref. No.	Part No.	Part Name & Descriptions
60	4110240109	TRANS CHASSIS
A *61	2335742007	POWER TRANS
62	4752006002	6 SPRING WASHER
63	4756012005	6 NUT
64	4120691007	BRACKET
65	2546050004	ELECTROLYTIC CAP. 33000µF
66	_	
67	2050117006	EARTH PLATE
67 68	2050003000	3 PLUG
69	2760257007	DIODE 15D4B41
70	4730459011	TAPPING SCREW (2) 4×16
71	_	_
72	EP-4772	CORD HOLDER
73	4120663003	PWB BRACKET
*74	1440631009	FRONT PANEL
75	1140049001	PANEL BUSH (A)
76	1130190106	PUSH KNOB ASS.
77	4630226001	SPRING
78	1240029031	FELT SHEET (A)
79	1190022007	STOPPER
80	4712303017	FLAT HEAD SCREW 3x6
81	1140050003	PANEL BUSH (B)
82	1130191005	PUSH KNOB SPRING
83 84	4630226014 1190014002	STOPPER
85	1140051002	PANEL BUSH (C)
86	1130192007	PUSH KNOB ASS.
87	1240030004	FELT SHEET (B)
88	AUE0008B2	INPUT LED UNIT
89	AUE0008B3	POWER LED UNIT
90	4730304014	TAPPING SCREW (1) 3×8
91	1460240001	SIDE ESC. (L)
92	1460241000	SIDE ESC. (R)
93	1350035012	MARK
94	1050308104	BOTTOM COVER
95	1040027107	FOOT
96	4140215007	SHIELD PLATE
97	4150172004	INSULATING SHEET RUBBER SHEET
98	4610136014 1020094202	TOP COVER
99 10 0	1220064045	SPACER
101	4734801005	TAPPING SCREW TRUSS (2) 4x8
102	1250004020	SPACER
103	1240019054	FELT SHEET
104	1010729008	WOOD BOARD (L)
105	1010730107	WOOD BOARD (R)
106	1220064032	SPACER
107	1240032002	FELT SHEET
108	4751006016	5 WASHER
109	4734461034	TAPPING SCREW TRUSS (2) 4x25
110	4752004004	4 SPRING WASHER KNOB ASS. (FOR VOL.)
111	1120285005 1120286004	KNOB ASS. (FOR SPEAKER, HEAD
112	1120200004	PHONE)
113	1120287003	KNOB ASS. (FOR TAPE REC. NO D)
114	1120288002	KNOB ASS. (FOR BALANCE, BASS,
		TREBLE)
115	1	
116	4120703005	PWB BRACKET
117	2050089008	7P WIRING TERMINAL
118	4150088004	INSULATING SHEET
119	4711104039	CROSS PAN SCREW 2x8 BLACK
120	4140220005	SHIELD COVER
121	2048069001	5P CONNECTOR (DIN)

PRINTED CIRCUITBORD PATTERNS AND PARTS LIST

AUE-008B EQ. UNIT



Please be noted the following difference between the print on the AUE-008B P.C. Board and actual parts utilized.

■ Polarity of TR24 is reversed. Actually B → E, E → B.

Polarities of C5, C6 are reversed.

VR1, VR2 are not utilized. These portions are jumpered with lead. RL2 is not employed. Refer to pattern side for R119, 120 (RD14B2E391J), R121, 122, 123, 124 (RD14B2H200), C85 (CE04W1E101).

ı	Ref. No.	Part No.	Part Name &	Descriptions
l			SEMICONDUCTORS	
r	TR01	2710126049	μPA-77V(P)/(F)/(E)	TRANSISTOR
	TR02	2710126049	μPA-77V(P)/(F)/(E)	TRANSISTOR
	TR03	2730186001	2SC1940(L)	TRANSISTOR
	TR04	2730186001	2SC1940(L)	TRANSISTOR
1	TR05	2730186001	2SC1940(L)	TRANSISTOR
1	TR06	2730186001	2SC1940(L)	TRANSISTOR
1			2SK146GR/BL	MANSISTON
l	TR07	2750026057		ECT TRANSISTOR
ı		2750000057	2SK146GR/BL	ECT TRANSISTON
	TR08	2750026057		ECT TRANSISTOR
	TR09	2750026057	2SK146GR/BL	ECT TRANSISTOR
١	TR10	2750026057	2SK146GR/BL	
ı				ECT TRANSISTOR
	TR11	2730198002	2SC1815(Y)	TRANSISTOR
1	TR12	2730198002	2SC1815(Y)	TRANSISTOR
١	TR13	2730198002	2SC1815(Y)	TRANSISTOR
1	TR14	2730198002	2SC1815(Y)	TRANSISTOR
1	TR15	2730207003	2SC1845(F)	TRANSISTOR
	TR16	2730207003	2SC1845(F)	TRANSISTOR
١.	'R17	2730207003	2SC1845(F)	TRANSISTOR
	rR18	2730207003	2SC1845(F)	TRANSISTOR
ŀ	TR19	2710111009	2SA992(F)	TRANSISTOR
	TR20	2710111009	2SA992(F)	TRANSISTOR
			2SC2238(Y)	TRANSISTOR
	TR21	2730199001	2SC2238(Y)	TRANSISTOR
	TR22	2730199001		
	TR23	2710104003	2SA968(Y)	TRANSISTOR
	TR24	2710104003	2SA968(Y)	TRANSISTOR
Г	TR25	2730207003	2SC1845(F)	TRANSISTOR
Г	TR26	2730207003	2SC1845(F)	TRANSISTOR
Г	TR27	2710126049	μPA-77V(P)/(F)/(E)	TRANSISTOR
	TR28	2710126049	μPA-77V(P)/(F)/(E)	TRANSISTOR
Г	TR29	2730207003	2SC1845(F)	TRANSISTOR
L	TR30	2730207003	2SC1845(F)	TRANSISTOR
L	TR31	2730207003	2SC1845(F)	TRANSISTOR
ŀ	TR32	2730207003	2SC1845(F)	TRANSISTOR
ŀ	TR33	2750024004	µPA68H(K) FIELD E	FFECT TRANSISTOR
ŀ	TR34	2750024004	MPA68H(K) FIELD E	FFECT TRANSISTOR
ŀ	TR35	2750026057	2SK146GR/BL	
L				ECT TRANSISTOR
ı	TR36	2750026057	2SK146GR/BL	COT TO ANGICTOR
I.				ECT TRANSISTOR
ľ	TR37	2730207003	2SC1845(F)	TRANSISTOR
	R38	2730207003	2SC1845(F)	TRANSISTOR
1	1'R39	2710111009	2SA992(F)	TRANSISTOR
1	TR40	2710111009	2SA992(F)	TRANSISTOR
1	TR41	2730187013	2SC2240(BL)	TRANSISTOR
1	TR42	2730187013	2SC2240(BL)	TRANSISTOR
ľ	TR43	2710094016	2SA968(Y)	TRANSISTOR
1	TR44	2710094016	2SA968(Y)	TRANSISTOR
1	TR45	2730207003	2SC1845(F)	TRANSISTOR
ŀ	TR46	2730207003	2SC1845(F)	TRANSISTOR
	TR47	2710111009	2SA992(F)	TRANSISTOR
	TR48	2710111009	2SA992(F)	TRANSISTOR
	TR49	2710111009	2SA992(F)	TRANSISTOR
	TR50	2710111009	2SA992(F)	TRANSISTOR
		2760049008	1S2076	DIODE
	D01		-	DIODE
1	D02	2760049008	1S2076	DIODE
	D03	2760049008	152076	
1	D04	2760049008	1S2076	DIODE
	D05	2760173000	HZ6A	DIODE
	D06	2760173000	HZ6A	DIODE
1	D07	2760237001	RV06	DIODE
•	D08	2760237001	RV06	DIODE
ı		4		DIODE
1	D09	2760237001	RV06	DIODE

Ref. No.	Part No.	Part Name & Descriptions
D11	2760049008	1S2076 DIODE
D12	2760049008	1S2076 DIODE
D13	2760049008	1\$2076 DIODE
D14	2760049008	1S2076 DIODE
D15	2760173000	HZ6A DIODE
D16	2760173000	HZ6A DIODE
D17	2760200009	MV-11 DIODE
D18	2760200009	IVI V - 1 1
D19 .	2760237001	11700
D20	2760237001	RV06 DIODE MV-11 DIODE
D21	2760200009	MV-11 DIODE
D22 D23	2760200009 3939040002	TLG206 LIGHT EMITTING DIODE
D23	3939040002	TLG206 LIGHT EMITTING DIODE
D25	3939040002	TLG206 LIGHT EMITTING DIODE
D26	3939040002	TLG206 LIGHT EMITTING DIODE
D27	3939040002	TLG206 LIGHT EMITTING DIODE
D30	3939032007	TLR206 LIGHT EMITTING DIODE
		RESISTORS
R01	2412211906	220 ohm ±5% ¼W CARBON FILM
R02	2412211906	220 ohm ±5% ¼W CARBON FILM
R05	2412268904	51 kohm ±5% ¼W CARBON FILM
R06	2412268904	51 kohm ±5% ¼W CARBON FILM
R07	2412179909	10 ohm ±5% ¼W CARBON FILM
R08	2412179909	10 ohm ±5% ¼W CARBON FILM
R09	2410178009	510 ohm ±5% ½W CARBON FILM
R10	2410178009	510 ohm ±5% ½W CARBON FILM
R11	2410178009	510 ohm ±5% ½W CARBON FILM
R12	2410178009	510 ohm ±5% ½W CARBON FILM 330 ohm ±5% ½W CARBON FILM
R13	2412215902	330 ohm ±5% %W CARBON FILM 330-ohm ±5% %W CARBON FILM
R14	2412215902	5.1 kohm ±5% ½W CARBON FILM
R15 R16	2410202001 2410202001	5.1 kohm ±5% ½W CARBON FILM
R17	2410202001	5.1 kohm ±5% ½W CARBON FILM
R18	2410202001	5.1 kohm ±5% ½W CARBON FILM
R19	2412310001	2.2 kohm ±5% 1W CARBON FILM
R20	2412310001	2.2 kohm ±5% 1W CARBON FILM
R21	2412281907	180 kohm±5% ¼W CARBON FILM
R23	2412191903	33 ohm ±5% ¼W CARBON FILM
R25	2412251908	10 kohm ±5% ¼W CARBON FILM
R29	2412275900	100 kohm±5% ½W CARBON FILM
R30	2412275900	100 kohm±5% ¼W CARBON FILM
R31	2412275900	100 kohm±5% ¼W CARBON FILM
R32	2412275900	100 kohm±5% ¼W CARBON FILM
R33	2412273902	82 kohm ±5% ¼W CARBON FILM
R34	2412273902	82 kohm ±5% ¼W CARBON FILM 2 kohm ±5% ¼W CARBON FILM
R35	2410192001	
R36	2410192001 2442011040	2 kohm ±5% ½W CARBON FILM 20 ohm ±5% ½W METAL OXDE FILM
R37 R38	2442011040	20 ohm ±5% ½W METAL OXDE FILM
R39	2442011040	1.5 ohm ±5% ½W METAL OXDE FILM
R40	2442011011	1.5 ohm ±5% 1/2W METAL OXDE FILM
R41	2420199007	4.7M ohm ±10% %W CARBON COMPOSIT
R42	2420199007	4.7M ohm ±10% ¼W CARBON COMPOSIT
R43	2412273902	82 kohm ±5% ¼W CARBON FILM
R44	2412273902	82 kohm ±5% ¼W CARBON FL™
R45	2412259900	22 kohm ±5% ¼W CARBON FL™
R46	2412259900	22 kohm ±5% ¼W CARBON FLM
R47	2412243903	4.7 kohm ±5% ¼W CARBON FLM
R48	2412243903	4.7 kohm ±5% ¼W CARBON FLM
R49	2412217900	390 ohm ±5% ¼W CARBON FL™ 390 ohm ±5% ¼W CARBON FL™
R50	2412217900	
R51	2410153008	
R52 R53	2410153008 2410153008	47 ohm ±5% ½W CARBON FLIM 47 ohm ±5% ½W CARBON FLIM
123		
R54	2410153008	47 ohm ±5% ½W CARBON FLM

(Con.)

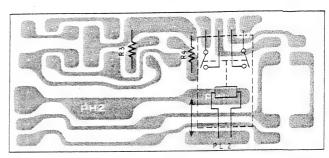
Ref. No.	Part No.	Part Name & Descriptions
R55	2452011014	4.7 kohm ±1% ½W METAL OXIDE FILM
R56	2452011014	4.7 kohm ±1% ½W METAL OXIDE FILM
R57	2412262900	30 kohm ±5% ¼W CARBON FILM
R58	2412262900	30 kohm ±5% ¼W CARBON FILM
R59	2452019003	680 ohm ±1% %W METAL OXIDE FILM
R60	2452019003	680 ohm ±1% ½W METAL OXIDE FILM 1M ohm ±5% ½W CARBON FILM
R61	2412299902	1M ohm ±5% ½W CARBON FILM 1M ohm ±5% ½W CARBON FILM
R62 R63	2412299902 2442012081	39 ohm ±5% ½W METAL OXIDE FILM
R64	2442012081	39 ohm ±5% ½W METAL OXIDE FILM
R65	2412211906	220 ohm ±5% ¼W CARBON FILM
R66	2412211906	220 ohm ±5% ¼W CARBON FILM
R67	2412211906	220 ohm ±5% ¼W CARBON FILM
R68	2412211906	220 ohm ±5% %W CARBON FILM
R69	2412275900	100 kohm±5% ½W CARBON FILM
R70	2412275900	100 kohm±5% ¼W CARBON FILM
R71	2412273902	82 kohm ±5% ¼W CARBON FILM
R72	2412273902	82 kohm ±5% ¼W CARBON FILM 18 kohm ±5% ¼W CARBON FILM
R73 R74	2412257902 2412257902	18 kohm ±5% ¼W CARBON FILM
R75	2412257902	180 ohm ±5% ¼W CARBON FILM
R76	2412209905	180 ohm ±5% ¼W CARBON FILM
R79	2452011030	330 ohm ±1% ¼W METAL OXIED FILM
R80	2452011030	330 ohm ±1% ¼W METAL OXIDE FILM
R81	2412244902	5.1 kohm ±5% ¼W CARBON FILM
R82	2412244902	5.1 kohm ±5% ¼W CARBON FILM
R83	2412244902	5.1 kohm ±5% ½W CARBON FILM
R84	2412244902	5.1 kohm ±5% ¼W CARBON FILM 1 kohm ±5% ¼W CARBON FILM
R85	2412227903	1 kohm ±5% ¼W CARBON FILM 1 kohm ±5% ¼W CARBON FILM
R86	2412227903 2420198008	3,9M ohm ±10% ½W CARBON COMPOSIT
R87 R88	2420198008	3.9M ohm ±10% ½W CARBON COMPOSIT
R89	2412203901	100 ohm ±5% ¼W CARBON FILM
R90	2412203901	100 ohm ±5% ¼W CARBON FILM
R91	2410192001	2 kohm ±5% ½W CARBON FILM
R92	2410192001	2 kohm ±5% ½W CARBON FILM
R93	2412203901	100 ohm ±5% ¼W CARBON FILM
R94	2412203901	100 ohm ±5% ¼W CARBON FILM
R95	2412265907	39 kohm ±5% ¼W CARBON FILM 39 kohm ±5% ¼W CARBON FILM
R96 R97	2412265907 2412240906	3.6 kohm ±5% ½W CARBON FILM
R98	2412240906	3.6 kohm ±5% ¼W CARBON FILM
R99	2412236907	2.4 kohm ±5% ¼W CARBON FILM
R100	2412236907	2.4 kohm ±5% ¼W CARBON FILM
R101	2410153008	47 ohm ±5% ½W CARBON FILM
R102	2410153008	47 ohm ±5% ½W CARBON FILM
R103	2410153008	47 ohm ±5% ½W CARBON FILM
R104	2410153008	47 ohm ±5% ½W CARBON FILM
R105	2412191903	33 ohm ±5% ¼W CARBON FILM 33 ohm ±5% ¼W CARBON FILM
R106	2412191903	33 ohm ±5% ¼W CARBON FILM 100 kohm±5% ¼W CARBON FILM
R107 R108	2412275900 2412275900	100 kohm±5% ¼W CARBON FILM
R109	2412273900	5.1 kohm ±5% ½W CARBON FILM
R110	2412244902	5.1 kohm ±5% ¼W CARBON FILM
R111	2442012081	39 ohm ±5% ½W METAL OXIDE FILM
R112	2442012081	39 ohm ±5% ½W METAL OXIDE FILM
R115	2452011030	330 ohm ±1% ¼W METAL OXIDE FILM
R116	2452011030	330 ohm ±1% %W METAL OXIDE FILM
R117	2440043023	
R119	2412082009	390 ohm ±5% ¼W CARBON FILM 390 ohm ±5% ¼W CARBON FILM
R120 R121	2412082009	2 kohm ±5% ½W CARBON FILM
R122	2410192001	2 kohm ±5% ½W CARBON FILM
R123	2410192001	2 kohm ±5% ½W CARBON FILM
R124	2410192001	2 kohm ±5% ½W CARBON FILM
	1	

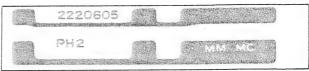
Ref. No.	Part No.	Part Name & Descriptions
		CAPACITORS
C01	2556077006	120 pF ±5% 50V PLASTIC FILM
C02	2556077006	120 pF ±5% 50V PLASTIC FILM
C03	2556088008	360 pF ±5% 50V PLASTIC FILM
C04	2556088008	360 pF ±5% 50V PLASTIC FILM 100 uF 63V ELECTROLYTIC
C05	2544059007	7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7
C06	2544059007 2549015004	100 µF 63V ELECTROLYTIC 22 µF ±10% 10V ELECTROLYTIC
C07	2544030000	330 µF 25V ELECTROLYTIC
C09 C10	2544030000	200 %.
C11	2556152028	24 pF ±5% 250V PLASTIC FILM
C12	2556152028	24 pF ±5% 250V PLASTIC FILM
C17	2544015009	10 µF 16V ELECTROLYTIC
C18	2544015009	10 µF 16V ELECTROLYTIC
C19	2561017019	0.01 μF ±10% 630V METALIZED
C20	2561017019	0.01 µF ±10% 630V METALIZED 220 µF 63V ELECTROLYTIC
C21	2544059010 2544059010	220 µF 63V ELECTROLYTIC 220 µF 63V ELECTROLYTIC
C22	2554083021	0.47 μF ±2% 100V PLASTIC FILM
C23	2554083021	0.47 μF ±2% 100V PLASTIC FILM
C25	2554070092	0.15 HF ±1% 100V PLASTIC FILM
C26	2554070092	0.15 µF ±1% 100V PLASTIC FILM
C27	2554079048	0.01 μF ±5% 100V PLASTIC FILM
C28	2554079048	0.01 µF ±5% 100V PLASTIC FILM
C29	2561017019	0.01 µF ±10% 630V METALIZED
C30	2561017019	0.01 μF ±10% 630V METALIZED
C31	2544059010	220 µF 63V ELECTROLYTIC 220 µF 63V ELECTROLYTIC
C32	2544059010	220 µF 63V ELECTROLY IIC 470 pF ±5% 50V PLASTIC FILM
C33 C34	2556091008 2556091008	470 pF ±5% 50V PLASTIC FILM
C35	2544077021	100 HF 50V ELECTROLYTIC
C36	2544077021	100 µF 50V ELECTROLYTIC
C39	2556075008	100 pF ±5% 50V PLASTIC FILM
C40	2556075008	100 pF ±5% 50V PLASTIC FILM
C41	2556152086	33 pF ±5% 250V PLASTIC FILM
C42	2556152086	33 pF ±5% 250V PLASTIC FILM
C43	2544015009	10 µF 16V ELECTROLYTIC 10 µF 16V ELECTROLYTIC
C44 C47	2544015009 2544077021	10 µF 16V ELECTROLYTIC 100 µF 50V ELECTROLYTIC
C47	2556099000	0.001 µF ±5% 50V PLASTIC FILM
C50	2556099000	0.001 µF ±5% 50V PLASTIC FILM
C51	2554079048	0.01 µF ±5% 100V PLASTIC FILM
C52	2554079048	0.01 μF ±5% 100V PLASTIC FILM
C55	2544077021	100 µF 50V ELECTROLYTIC
C57	2554079048	0.01 µF ±5% 100V PLASTIC FILM
C58	2554079048	0.01 µF ±5% 100V PLASTIC FILM 10 µF 63V ELECTROLYTIC
C63	2544059081	10 µF 63V ELECTROLYTIC 10 µF 63V ELECTROLYTIC
C64	2544059081 2544044009	1 µF 50V ELECTROLYTIC
C65 C66	2544044009	1 µF 50V ELECTROLYTIC
C67	2544044009	1 HF 50V ELECTROLYTIC
C68	2544044009	1 HF 50V ELECTROLY TIC
C69	2544044009	1 μF 50V ELECTROLYTIC
C70	2544015009	10 HF 16V ELECTROLYTIC
C75	2561016007	0.068 µF ±10% 400V METALIZE D
C76	2561016007	0.068 µF ±10% 400V METALIZE D
C77	2561016007	0.068 µF ±10% 400V METALIZE D
C78	2561016007	0.068 μF ±10% 400V METALIZE D
	1	OTHER PARTS
	220579209	P.W. BOARD
	2050112056	5P CONNECTOR BASE
	2050112030	3P CONNECTOR BASE

EQ. MUTING UNIT (included SUX-025)

(Con.)

Ref.	Part No.	Part Name & Descriptions
SW01 SW02 SW03 RL01	2090008133 2090008120 2090008117 2090008104 4140116106 2048050007 2040061007 2124205103 2124187001 2140039007 4170124003	JUMPER SHORT LEAD P=7.5mm USED 2 JUMPER SHORT LEAD P=10mm USED 25 JUMPER SHORT LEAD P=12.5mm USED 2 JUMPER SHORT LEAD P=15mm USED 7 SHIELD COVER 4P TERMINAL 6P CONNECTOR BASE 5P PUSH SWITCH SLIDE SWITCH 4 CIRCUIT 3 POSITION SLIDE SWITCH 4 CIRCUIT 3 POSITION RELAY MINI RADIATOR FOR TR21, 22, 23, 24
L01 L02	4730354035 2318017000 2318017000 2034119088 2034119033 2034141014 2034119091	TAPPING SCREW (2) 3x8 BLACK FOR TR21, 22, 23, 24 INDUCTOR INDUCTOR 3P CONTACT WIRE ASS FOR EQ OUTPUT 3P CONTACT WIRE ASS FOR EQ OUTPUT 3P CONTACT WIRE ASS FOR EQ INPUT 3P CONTACT WIRE ASS FOR EQ INPUT 3P CONTACT WIRE ASS FOR PH-2
RL02	2034145007 2034145010 2034140015 2140015005	3P CONTACT WIRE ASS FOR TUNER 3P CONTACT WIRE ASS FOR AUX 3P CONTACT WIRE ASS FOR TAPE REED RELAY

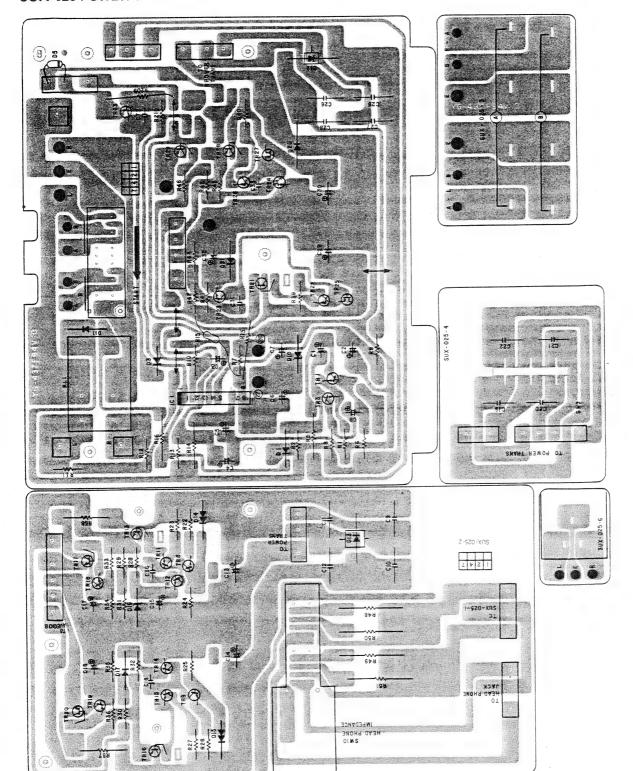




EQ. MUTING UNIT PARTS LIST

Ref. No.	Part No.	Part Name & Descriptions	
	GENERAL		
RL02 R03 R04 C15 C16 C61	2220605004 2090008120 2140015005 2412068007 2412068007 2541035011 2541035011 2541035011	P.W. BOARD JUMPER SHORT LEAD P=10mm USED 1 REED RELAY 100 ohm ±5% ¼W CARBON FILM 100 ohm ±5% ¼W CARBON FILM 2.2 μF ±20% 35V PLASTIC FILM 2.2 μF ±20% 35V PLASTIC FILM 0.47 μF ±10% 250V METALIZED 0.47 μF ±10% 250V METALIZED	

SUX-025 POWER SUPPLY UNIT



SUX-025 PARTS LIST

Ref. No.	Part No.	Part Name & Descriptions
	S	SEMICONDUCTORS
IC01 TR01 TR03 TR07	2630102004 2730198015 2730198015 2730177907	HA12002W INTEGRATED CIRCUIT 2SC1815(BL) TRANSISTOR 2SC1815(BL) TRANSISTOR 2SC1626(Y) TRANSISTOR

Réf. No.	Part No.	Part Name & Descriptions
TR08	2710094032	2SA970(BL)/(GR) TRANSISTO R
TR09	2730187039	2SC2240(BL)/(GR) TRANSISTO R
TR11	2730187039	2SC2240(BL)/(GR) TRANSISTO R
TR12	2730187039	2SC2240(BL)/(GR) TRANSISTO R
TR13	2740044036	2SD478(C)/(D) TRANSISTO R
TR14	2710094032	2SA970(BL)/(GR) TRANSISTO R

NOTE:
Piggs by noted the following difference between the print on the SUX-025 P.C. Board and actual parts utilized.

• Refer to pattern side for D5 (IS2076A) and R15 (4B2E914).

• Refer to pattern side for P5 (IS2076A) and R15 (AB2E914).

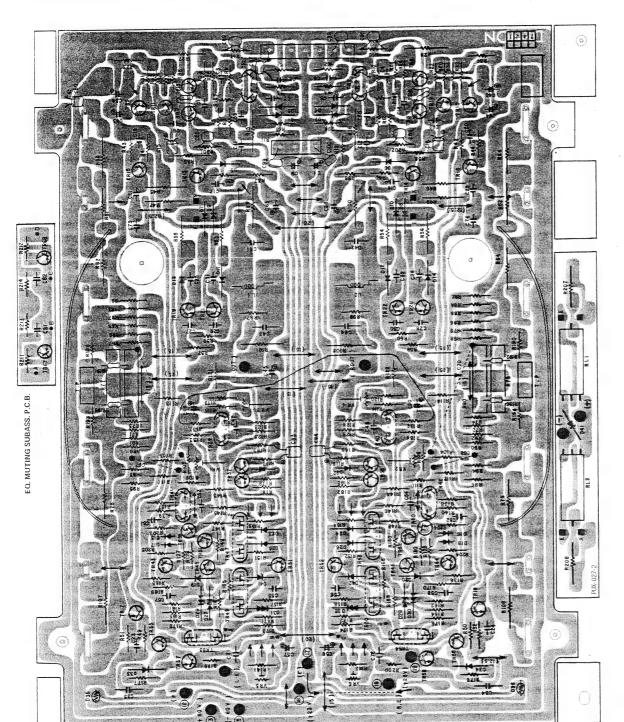
• Color indications for terminals 26, 27 on the SUX-025-1 board are contrary. Actually the terminals 26 - yellow and 27 - white.

• Color indications for SUX-025-6 board red, white are contrary. Actually, white, red.

SUX-025 PARTS LIST

Ref. No.	Part No.	Part Name 8	& Descriptions
TR15	2710094032	2SA970(BL)/(GR)	TRANSISTOR
TR16	2720031027	2SB568(C)/(D)	TRANSISTOR
TR18	2730187039	2SC2240(BL)/(GR)	TRANSISTOR
TR19	2710094032	2SA970(BL)/(GR)	
TR20	2710088006	2SA816(Y)	TRANSISTOR
TR21	2730177007	2SC1626(Y)	TRANSISTOR
TR22	2730198031	2SC1815(BL)/(GR)	
TR23	2730198031	2SC1815(BL)/(GR)	
TR24	2710102005	2SA1015(Y)	TRANSISTOR
TR25	2750018007		EFFECT TRANSISTOR
TR26	2710102005	2SA1015(Y)	TRANSISTOR
TR27	2750018007		TRANSISTOR
TR28	2710088006	2SA816(Y)	TRANSISTOR
TR29	2730177007	2SC1626(Y) 2SC1815(Y)	TRANSISTOR
TR63	2730198002 2760049011	1S2076A	DIODE
D01 D03	2760254000	HZ7B-3	DIODE
D03	2760254000	1S2076A	DIODE
D05	2760049011	MZ303A	DIODE
D10	2760244007	RV06	DIODE
D13	2760237001	S1RBA20F	DIODE
D13	2760200009	MV-11	DIODE
15	2760200009	MV-11	DIODE
D16	2760220018	HZ24-1	DIODE
D17	2760049008	1\$2076	DIODE
D19	2760239009	S1RBA20F	DIODE
D20	2760158009	W06A	DIODE
D21	2760253001	HZ15-2	DIODE
	1	RESISTORS	
R01	2412219908	470 ohm ±5% ¼W	CARRON FILM
R02	2412219908	300 kohm±5% ¼W	
R05	2440045021		METAL OXIDE FILM
R06	2412286902	300 kohm ±5% ¼W	
R07	2412179909	10 ohm ±5% ¼W	CARBON FILM
R08	2412247909	6.8 kohm ±5% ¼W	CARBON FILM
R09	2412243903	4.7 kohm ±5% ¼W	CARBON FILM
R10	2412251908	10 kohm ±5% %W	CARBON FILM
R11	2412264908	36 kohm ±5% ¼W	CARBON FILM
R12	2412264908	36 kohm ±5% ¼W	
R13	2412287901	330 kohm±5% ¼W	
R14	2440042024	1.2 kohm ±5% 1W	METAL OXIDE FILM
R15	2412163009	910 kohm±5% ¼W	CARBON FILM
막16	2440032021	180 ohm ±5% 1W	METAL OXIDE FILM
. 22	2412227903		CARBON FILM
R23	2412219908	470 ohm ±5% ¼W 27 kohm ±5% ¼W	
R24	2412261901	27 kohm ±5% ¼W 27 kohm ±5% ¼W	
R25	2412261901	1 kohm ±5% ¼W	
R26	2412227903 2412219908	470 ohm ±5% ¼W	
R27 R28	2412219908	27 kohm ±5% ¼W	
R29	2412261901	36.kohm ±5% ¼W	
R30	2412264908	51 kohm ±5% ¼W	
R31	2412260904	24 kohm ±5% ¼W	
R32	2412268904	51 kohm ±5% ¼W	
R33	2412259900	22 kohm ±5% ¼W	
	2412261901	27 kohm ±5% ¼W	
R34		27 kohm ±5% ¼W	
R34 R35	2412261901		
	2412261901 2412259900	22 kohm ±5% ¼W	CARBON FILM
R35			METAL OXIDE FILM
R35 R36	2412259900	22 kohm ±5% ¼W	
R35 R36 R37	2412259900 2440041025	22 kohm ±5% ¼W 1 kohm ±5% 1W	METAL OXIDE FILM METAL OXIDE FILM
R35 R36 R37 R38	2412259900 2440041025 2440041025	22 kohm ±5% ¼W 1 kohm ±5% 1W 1 kohm 1W	METAL OXIDE FILM METAL OXIDE FILM CARBON FILM
R35 R36 R37 R38 R39 R40 R41	2412259900 2440041025 2440041025 2412219908 2412219908 2412249907	22 kohm ±5% ¼W 1 kohm ±5% 1W 1 kohm 1W 470 ohm ±5% ¼W 470 ohm ±5% ¼W 8.2 kohm ±5% ¼W	METAL OXIDE FILM METAL OXIDE FILM CARBON FILM CARBON FILM CARBON FILM
R35 R36 R37 R38 R39 R40	2412259900 2440041025 2440041025 2412219908 2412219908	22 kohm ±5% ¼W 1 kohm ±5% 1W 1 kohm 1W 470 ohm ±5% ¼W 470 ohm ±5% ¼W	METAL OXIDE FILM METAL OXIDE FILM CARBON FILM CARBON FILM CARBON FILM CARBON FILM

Ref. No.	Part No.	Part Name & Descriptions	
R44	2412255904	15 kohm ±5% ¼W CARBON FILM	
R45	2412259900	22 kohm ±5% ¼W CARBON FILM	
R46	2412219908	470 ohm ±5% ½W CARBON FILM	
R48	2440087021	120 ohm ±5% 2W METAL OXIDE FILM 120 ohm ±5% 2W METAL OXIDE FILM	
R49 R50	2440087021 2440078027	120 ohm ±5% 2W METAL OXIDE FILM 22 ohm ±5% 2W METAL OXIDE FILM	
R51	2440078027	22 ohm ±5% 2W METAL OXIDE FILM	
R200	2412275900	100 kohm±5% 2W METAL OXIDE FILM	
		CAPACITORS	
C01	2544034006	4.7 μF 35V ELECTROLYTIC	
C02	2544066003	2.2 µF 50V ELECTROLYTIC	
C03	2544005006	330 µF 6.3V ELECTROLYTIC	
C04	2544044009	1 µF 50V ELECTROLYTIC 10 µF 35V ELECTROLYTIC	
C05	2544035005 2549015017	10 μF 35V ELECTROLYTIC 47 μF ±10% 10V ELECTROLYTIC	
C06	2549015017	47 µF ±10% 10V ELECTROLYTIC	
C08	2544034006	4.7 µF 35V ELECTROLYTIC	
C09	2561017019	0.01 µF ±10% 630V METALIZED	
C10	2561017019	0.01 μF ±10% 630V METALIZED	
C11	2561017019	0.01 μF ±10% 630V METALIZED	
C12	2561017019	0.01 μF ±10% 630V METALIZED	
C13	2546037001	470 µF 100V ELECTROLYTIC 470 µF 100V ELECTROLYTIC	
C14	2546037001		
C15	2544027000 2521018003	47 μF 25V ELECTROLYTIC 22 pF ±10% 50V MICA FILM	
C16 C17	2544044009	1 μF 50V ELECTROLYTIC	
C18	2544044009	1 µF 50V ELECTROLYTIC	
C19	2561017019	0.01 μF ±10% 630V METALIZED	
C20	2561017019	0.01 µF ±10% 630V METALIZED	
C21	2561017019	0.01 µF ±10% 630V METALIZED	
C22	2561017019	0.01 μF ±10% 630V METALIZED	
C25	2561017019	0.01 μF ±10% 630V METALIZED 0.01 μF ±10% 630V METALIZED	
C26 C27	2561017019 2561017019	0.01 μF ±10% 630V METALIZED 0.01 μF ±10% 630V METALIZED	
C28	2561017019	0.01 µF ±10% 630V METALIZED	
C29	2544065017	2200 μF 35V ELECTROLYTIC	
C30	2544041002	470 μF 35V ELECTROLYTIC	
C31	2521018003	22 pF ±10% 50V MICA FILM	
C32	2544017007	47 µF 16V ELECTROLYTIC	
C33	2521018003	22 pF ±10% 16V MICA FILM 22 pF ±10% 16V MICA FILM	
C36 C77	2521018003 2531004007	22 pF ±10% 16V MICA FILM 0.001 μF ±10% 50V CERAMIC	
		OTHER PARTS	
	2220576105	P.W. BOARD	
]	2050112030	3P.CONNECTOR BASE	
	2050112043	4P CONNECTOR BASE	
	2050112056	5P CONNECTOR BASE	
	2032068005	2P CONNECTOR	
	2036079003	4P CONNECTOR BASE	
B1.64	EP-6071 2140041008	BASE PIN RELAY	
RL01	2090008120	JUMPER SHORT LEAD P=10mm USED 2	
swo9	2124207004	SLIDE SWITCH (POWER)	
SW10	2120160006	ROTARY SWITCH (B)	
SW11	2124206005	SLIDE SWITCH (REMOTE)	
	2050070004	8P TERMINAL	
	2048047007	HEAD PHONE JACK	
	4170021009	RADIATOR FOR TR16, TR13	
	4730354019 2034138014	TAPPING SCREW 3P CONNECTOR CORD FOR I.P. JACK	
	2034138014	3P CONNECTOR CORD FOR LP.	
	223	SWITCH	
	2038086007	5P CONNECTOR CORD FOR O. MUT.	



Please be noted the following difference between the print on the PUX-027B P.C. Board and actual parts utilized.

• Instead of R155 and R156, D41 and D42 (Hz24-1) are employed.

• rotarity or part, page is reversed. NOTE:

R181, R182 portion is using sub-processed component

• Refer to pattern state for H192, 195, 196 (Carbon Film 100 ohm ±5%), R215, 216 (Carbon Film 47 ohm ±5%), C83, 84 (Refer to pattern state for H192, 195, 196 (Carbon Film 100 ohm ±6%), R215, 216 (Carbon Film 47 ohm ±5%), C83, 84 (Electrolytic 0.47µ/100V), C85, 86 (Mica Film 15pF/50V ±0.25P), C80, 190 (Mica Film 5pF/50V ±0.5P), C87, 88 (Mica Film 15pF/50V ±5%), C15, 16 (Electrolytic 1µF/100V), C99, 100 (Metalized 0.01µF/630V ±5%). The lead in the center of TR37~TR42 (MPA-77V) must be cut off entirely before inserting to the board.

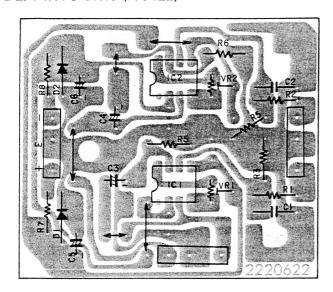
PUX-027B PARTS LIST

No.	R N
TRADESTOR TRANSISTOR TRAN	D3
TRANSISTOR	D4
TROS 2730235004 28C1841(F) TRANSISTOR TROS 2730235004 28C1841(F) TRANSISTOR TROS 2730235004 28C1841(F) TRANSISTOR TROS 2710110000 28A916(L) TRANSISTOR TROS 2710110000 28A916(L) TRANSISTOR TROS 2710110000 28A916(L) TRANSISTOR TROS 2730205005 28C1941(L) TRANSISTOR TROS 2730212001 28C2655(Y) TRANSISTOR TROS 2730212001 28C2655(Y) TRANSISTOR TROS 2730212001 28C2655(Y) TRANSISTOR TROS 2710117003 28A1020(Y) TRANSISTOR TROS 2710115005 28A995(G) TRANSISTOR TROS 2710126036 JPA-77V(F)/(E) TRANSISTOR JPA-77V(F)/(E) JPA	D4
TR007 2730235004 25C1841(F) TRANSISTOR TR09 2710110000 2SA916(L) TRANSISTOR TR11 2710110000 2SA916(L) TRANSISTOR TR11 2730205005 2SC1941(L) TRANSISTOR TR14 2730205005 2SC1941(L) TRANSISTOR TR15 2710110000 2SA916(L) TRANSISTOR TR16 2710110000 2SA916(L) TRANSISTOR TR16 2710110000 2SA916(L) TRANSISTOR TR17 2730205005 2SC1941(L) TRANSISTOR TR18 2730205005 2SC1941(L) TRANSISTOR TR19 273021001 2SC2655(Y) TRANSISTOR TR19 273021001 2SC2655(Y) TRANSISTOR TR19 2730212001 2SC2655(Y) TRANSISTOR TR20 2730212001 2SC2655(Y) TRANSISTOR TR20 2710117003 2SA1020(Y) TRANSISTOR TR21 2710117003 2SA1020(Y) TRANSISTOR TR32 2710115005 2SA995(G) TRANSISTOR TR38 2710126036 µA-77V(F)/(E) TRANSISTOR TR39 2710126036 µA-77V(F)/(E) TRANSISTOR TR41 2710126036 µA-77V(F)/(E) TRANSISTOR PA-77V(F)/(E) TRAN	D4
TROS 2730225004 2SC1841(F)	D4
TROW 2710110000	
TR10	
TR11	
TR13	R0
TR14	RO
TR15	RO
TR16	R0
TR17	R1
TR18	R1
TR20	R1
TR21	R1
TR22	R18
TR37	R29
TR38	R2
TR39	R2
TR41	R2
TR42	R2
TR43	R29
TR44	R3
TR45	R3
TR46	R3
TR48	R4
TR49	R4
TR50	R4
TR51	R4
TR52	R5
TR54 2750024020 μPA68H(M) FIELD EFFECT TRANSISTOR TR55 2710110000 2SA916(L) TRANSISTOR TR56 2710110000 2SA916(L) TRANSISTOR TR57 2730205005 2SC1941(L) TRANSISTOR TR68 2730205005 2SC1941(L) TRANSISTOR TR67 2710102005 2SA1015(Y) TRANSISTOR TR68 2710102005 2SA1015(Y) TRANSISTOR D01 2760049008 1S2076 DIODE D02 2760049008 1S2076 DIODE D03 2760049008 1S2076 DIODE D04 2760049008 1S2076 DIODE D05 2760171028 HV-23G(YL) DIODE D06 2760171028 HV-23G(YL) DIODE D07 2760049011 1S2076A DIODE D08 2760049011 1S2076A DIODE D10 2760049011 1S2076A DIODE D12 2760049011 1S2076A DIODE	R5
TR55	R5
TR56 2710110000 2SA916(L) TRANSISTOR TR57 2730205005 2SC1941(L) TRANSISTOR TR68 2730205005 2SC1941(L) TRANSISTOR TR67 2710102005 2SA1015(Y) TRANSISTOR TR68 2710102005 2SA1015(Y) TRANSISTOR TR68 2710102005 2SA1015(Y) TRANSISTOR D01 2760049008 1S2076 DIODE D02 2760049008 1S2076 DIODE D03 2760049008 1S2076 DIODE D04 2760049008 1S2076 DIODE D05 2760171028 HV-23G(YL) DIODE D06 2760171028 HV-23G(YL) DIODE D07 2760049011 1S2076A DIODE D09 2760049011 1S2076A DIODE D10 2760049011 1S2076A DIODE D10 2760049011 1S2076A DIODE D11 2760049011 1S2076A DIODE D12 2760049011 1S2076A DIODE D13 2760049011 1S2076A DIODE D14 2760049011 1S2076A DIODE D15 2760049011 1S2076A DIODE D17 2760049011 1S2076A DIODE D18 2760049011 1S2076A DIODE D19 2760049011 1S2076A DIODE D19 2760049008 1S2076 DIODE D17 2760049008 1S2076 DIODE D18 2760049008 1S2076 DIODE D19 2760049008 1S2076 DIODE D19 2760049008 1S2076 DIODE D19 2760049008 1S2076 DIODE D19 2760049008 1S2076 DIODE D20 2760049008 1S2076 DIODE D21 2760049008 1S2076 DIODE D22 2760049008 1S2076 DIODE D23 2760049008 1S2076 DIODE D24 2760049008 1S2076 DIODE D25 2760049008 1S2076 DIODE D26 2760049008 1S2076 DIODE D27 2760049008 1S2076 DIODE D28 2760049008 1S2076 DIODE D29 2760049008 1S2076 DIODE D20 2760049008 1S2076 DIODE D20 2760049008 1S2076 DIODE D20 2760049008 1S2076 DIODE D21 2760049008 1S2076 DIODE D22 2760049008 1S2076 DIODE D23 2760049008 1S2076 DIODE D24 2760049008 1S2076 DIODE D25 2760049008 1S2076 DIODE D26 2760049008 1S2076 DIODE D27 2760049008 1S2076 DIODE D28 2760049008 1S2076 DIODE D29 276020009 MV-11 DIODE D29 276020009 MV-11 DIODE D29 2760200009 MV-11 DIODE D30 276020009 MV-11 DIODE D30 276020009 MV-11 DIODE D30 276020009 MV-11 DIODE D31 2760253001 HZ15-2 DIODE	R5
TR57 2730205005 2SC1941(L) TRANSISTOR TR68 2730205005 2SC1941(L) TRANSISTOR TR67 2710102005 2SA1015(Y) TRANSISTOR TR68 2710102005 2SA1015(Y) TRANSISTOR TR68 2710102005 2SA1015(Y) TRANSISTOR D01 2760049008 1S2076 DIODE D02 2760049008 1S2076 DIODE D03 2760049008 1S2076 DIODE D04 2760049008 1S2076 DIODE D05 2760171028 HV-23G(YL) DIODE D06 2760171028 HV-23G(YL) DIODE D07 2760049011 1S2076A DIODE D08 2760049011 1S2076A DIODE D09 2760049011 1S2076A DIODE D10 2760049011 1S2076A DIODE D11 2760049011 1S2076A DIODE D11 2760049011 1S2076A DIODE D12 2760049011 1S2076A DIODE D13 2760049011 1S2076A DIODE D14 2760049011 1S2076A DIODE D15 2760049011 1S2076A DIODE D16 2760049011 1S2076A DIODE D17 2760049011 1S2076A DIODE D18 2760049008 1S2076 DIODE D16 2760049008 1S2076 DIODE D17 2760049008 1S2076 DIODE D18 2760049008 1S2076 DIODE D19 2760049008 1S2076 DIODE D19 2760049008 1S2076 DIODE D19 2760049008 1S2076 DIODE D20 2760049008 1S2076 DIODE D21 2760049008 1S2076 DIODE D22 2760049008 1S2076 DIODE D23 2760049008 1S2076 DIODE D24 2760049008 1S2076 DIODE D25 2760049008 1S2076 DIODE D26 2760049008 1S2076 DIODE D27 2760049008 1S2076 DIODE D28 2760049008 1S2076 DIODE D29 276020009 MV-11 DIODE D28 276020009 MV-11 DIODE D29 276020009 MV-11 DIODE D30 276020009 MV-11 DIODE D30 276020009 MV-11 DIODE D31 2760253001 HZ15-2 DIODE	R6
TRS8 2730205005 2SC1941(L) TRANSISTOR TR67 2710102005 2SA1015(Y) TRANSISTOR TR68 2710102005 2SA1015(Y) TRANSISTOR D01 2760049008 1S2076 DIODE D02 2760049008 1S2076 DIODE D03 2760049008 1S2076 DIODE D04 2760049008 1S2076 DIODE D05 2760171028 HV-23G(YL) DIODE D06 2760171028 HV-23G(YL) DIODE D07 2760049011 1S2076A DIODE D08 2760049011 1S2076A DIODE D09 2760049011 1S2076A DIODE D10 2760049011 1S2076A DIODE D11 2760049011 1S2076A DIODE D12 2760049011 1S2076A DIODE D13 2760049011 1S2076A DIODE D14 2760049011 1S2076A DIODE D15 2760049011 1S2076A DIODE D17 2760049011 1S2076A DIODE D18 2760049011 1S2076A DIODE D19 2760049011 1S2076A DIODE D19 2760049011 1S2076A DIODE D19 2760049008 1S2076 DIODE D16 2760049008 1S2076 DIODE D17 2760049008 1S2076 DIODE D18 2760049008 1S2076 DIODE D19 2760049008 1S2076 DIODE D19 2760049008 1S2076 DIODE D20 2760049008 1S2076 DIODE D21 2760049008 1S2076 DIODE D22 2760049008 1S2076 DIODE D23 2760049008 1S2076 DIODE D24 2760049008 1S2076 DIODE D25 2760049008 1S2076 DIODE D26 2760049008 1S2076 DIODE D27 2760049008 1S2076 DIODE D28 2760049008 1S2076 DIODE D29 276020009 MV-11 DIODE D29 276020009 MV-11 DIODE D30 2760200009 MV-11 DIODE D30 276020009 MV-11 DIODE D31 2760253001 HZ15-2 DIODE	R6
TR67 2710102005 2SA1015(Y) TRANSISTOR TR68 2710102005 2SA1015(Y) TRANSISTOR D01 2760049008 1S2076 DIODE D02 2760049008 1S2076 DIODE D03 2760049008 1S2076 DIODE D04 2760049008 1S2076 DIODE D05 2760171028 HV-23G(YL) DIODE D07 2760049011 1S2076A DIODE D08 2760049011 1S2076A DIODE D10 2760049011 1S2076A DIODE D10 2760049011 1S2076A DIODE D11 2760049011 1S2076A DIODE D12 2760049011 1S2076A DIODE D13 2760049011 1S2076A DIODE D14 2760049011 1S2076A DIODE D15 2760049011 1S2076A DIODE D17 2760049011 1S2076A DIODE D18 2760049011 1S2076A DIODE D19 2760049011 1S2076A DIODE D11 2760049011 1S2076A DIODE D15 2760049011 1S2076A DIODE D16 2760049011 1S2076A DIODE D17 2760049008 1S2076 DIODE D18 2760049008 1S2076 DIODE D19 2760049008 1S2076 DIODE D19 2760049008 1S2076 DIODE D19 2760049008 1S2076 DIODE D21 2760049008 1S2076 DIODE D22 2760049008 1S2076 DIODE D23 2760049008 1S2076 DIODE D24 2760049008 1S2076 DIODE D25 2760049008 1S2076 DIODE D26 2760049008 1S2076 DIODE D27 2760049008 1S2076 DIODE D28 2760049008 1S2076 DIODE D29 2760049008 1S2076 DIODE D20 2760049008 1S2076 DIODE D20 2760049008 1S2076 DIODE D21 2760049008 1S2076 DIODE D22 2760049008 1S2076 DIODE D23 2760049008 1S2076 DIODE D24 2760049008 1S2076 DIODE D25 2760049008 1S2076 DIODE D26 2760049008 1S2076 DIODE D27 276020009 MV-11 DIODE D28 2760200009 MV-11 DIODE D29 2760200009 MV-11 DIODE D30 2760200009 MV-11 DIODE D31 2760253001 HZ15-2 DIODE	R6
D01	R6
D02	R6
D03	R6
D04	R6
DOS	R7
D07	R7
D08	R7
D09	R7
D10	R7
D11 2760049011 1S2076A DIODE D12 2760049011 1S2076A DIODE D13 2760049011 1S2076A DIODE D14 2760049001 1S2076A DIODE D15 2760049008 1S2076 DIODE D16 2760049008 1S2076 DIODE D17 2760049008 1S2076 DIODE D18 2760049008 1S2076 DIODE D19 2760049008 1S2076 DIODE D20 2760049008 1S2076 DIODE D21 2760049008 1S2076 DIODE D22 2760049008 1S2076 DIODE D23 2760049008 1S2076 DIODE D24 2760049008 1S2076 DIODE D24 2760049008 1S2076 DIODE D25 2760049008 1S2076 DIODE D26 2760049008 1S2076 DIODE D27 2760200009 MV-11	R7
D12 2760049011 1S2076A DIODE D13 2760049011 1S2076A DIODE D14 2760049008 1S2076A DIODE D15 2760049008 1S2076 DIODE D16 2760049008 1S2076 DIODE D17 2760049008 1S2076 DIODE D18 2760049008 1S2076 DIODE D19 2760049008 1S2076 DIODE D20 2760049008 1S2076 DIODE D21 2760049008 1S2076 DIODE D22 2760049008 1S2076 DIODE D23 2760049008 1S2076 DIODE D24 2760049008 1S2076 DIODE D24 2760049008 1S2076 DIODE D25 2760049008 1S2076 DIODE D26 2760049008 1S2076 DIODE D27 2760200009 MV-11 DIODE D28 2760200009 MV-11	R7
D14 2760049011 1S2076A DIODE D15 2760049008 1S2076 DIODE D16 2760049008 1S2076 DIODE D17 2760049008 1S2076 DIODE D18 2760049008 1S2076 DIODE D19 2760049008 1S2076 DIODE D20 2760049008 1S2076 DIODE D21 2760049008 1S2076 DIODE D22 2760049008 1S2076 DIODE D23 2760049008 1S2076 DIODE D24 2760049008 1S2076 DIODE D24 2760049008 1S2076 DIODE D25 2760049008 1S2076 DIODE D26 2760049008 1S2076 DIODE D27 2760200009 MV-11 DIODE D28 2760200009 MV-11 DIODE D30 2760200009 MV-11 DIODE D31 2760253001 HZ15-2 <	R7
D15 2760049008 1S2076 DIODE D16 2760049008 1S2076 DIODE D17 2760049008 1S2076 DIODE D18 2760049008 1S2076 DIODE D19 2760049008 1S2076 DIODE D20 2760049008 1S2076 DIODE D21 2760049008 1S2076 DIODE D22 2760049008 1S2076 DIODE D23 2760049008 1S2076 DIODE D24 2760049008 1S2076 DIODE D25 2760049008 1S2076 DIODE D25 2760049008 1S2076 DIODE D26 2760049008 1S2076 DIODE D27 2760200009 MV-11 DIODE D28 2760200009 MV-11 DIODE D30 2760200009 MV-11 DIODE D31 2760253001 HZ15-2 DIODE	R7
D16 2760049008 1S2076 DIODE D17 2760049008 1S2076 DIODE D18 2760049008 1S2076 DIODE D19 2760049008 1S2076 DIODE D20 2760049008 1S2076 DIODE D21 2760049008 1S2076 DIODE D22 2760049008 1S2076 DIODE D23 2760049008 1S2076 DIODE D24 2760049008 1S2076 DIODE D25 2760049008 1S2076 DIODE D25 2760049008 1S2076 DIODE D26 2760049008 1S2076 DIODE D27 2760200009 MV-11 DIODE D28 2760200009 MV-11 DIODE D30 2760200009 MV-11 DIODE D31 2760253001 HZ15-2 DIODE	R8 R8
D17 2760049008 1S2076 DIODE D18 2760049008 1S2076 DIODE D19 2760049008 1S2076 DIODE D20 2760049008 1S2076 DIODE D21 2760049008 1S2076 DIODE D22 2760049008 1S2076 DIODE D23 2760049008 1S2076 DIODE D24 2760049008 1S2076 DIODE D25 2760049008 1S2076 DIODE D26 2760049008 1S2076 DIODE D27 276020009 MV-11 DIODE D27 2760200009 MV-11 DIODE D30 2760200009 MV-11 DIODE D31 2760253001 HZ15-2 DIODE	R8
D18 2760049008 1S2076 DIODE D19 2760049008 1S2076 DIODE D20 2760049008 1S2076 DIODE D21 2760049008 1S2076 DIODE D22 2760049008 1S2076 DIODE D23 2760049008 1S2076 DIODE D24 2760049008 1S2076 DIODE D25 2760049008 1S2076 DIODE D26 2760049008 1S2076 DIODE D27 2760200009 MV-11 DIODE D28 2760200009 MV-11 DIODE D30 2760200009 MV-11 DIODE D31 2760253001 HZ15-2 DIODE	R8
D19	R8
D21 2760049008 1S2076 DIODE D22 2760049008 1S2076 DIODE D23 2760049008 1S2076 DIODE D24 2760049008 1S2076 DIODE D25 2760049008 1S2076 DIODE D26 2760049008 1S2076 DIODE D27 276020009 MV-11 DIODE D28 276020009 MV-11 DIODE D29 276020009 MV-11 DIODE D30 2760200009 MV-11 DIODE D31 2760253001 HZ15-2 DIODE	R8
D22 2760049008 1S2076 DIODE D23 2760049008 1S2076 DIODE D24 2760049008 1S2076 DIODE D25 2760049008 1S2076 DIODE D26 2760049008 1S2076 DIODE D27 276020009 MV-11 DIODE D28 276020009 MV-11 DIODE D29 276020009 MV-11 DIODE D30 276020009 MV-11 DIODE D31 2760253001 HZ15-2 DIODE	R9
D23 2760049008 1S2076 DIODE D24 2760049008 1S2076 DIODE D25 2760049008 1S2076 DIODE D26 2760049008 1S2076 DIODE D27 2760200009 MV-11 DIODE D28 2760200009 MV-11 DIODE D29 2760200009 MV-11 DIODE D30 2760200009 MV-11 DIODE D31 2760253001 HZ15-2 DIODE	R9
D24 2760049008 1S2076 DIODE D25 2760049008 1S2076 DIODE D26 2760049008 1S2076 DIODE D27 276020009 MV-11 DIODE D28 276020009 MV-11 DIODE D29 276020009 MV-11 DIODE D30 2760200099 MV-11 DIODE D31 2760253001 HZ15-2 DIODE	R9
D25 2760049008 1S2076 DIODE D26 2760049008 1S2076 DIODE D27 2760200009 MV-11 DIODE D28 2760200009 MV-11 DIODE D29 2760200009 MV-11 DIODE D30 2760200009 MV-11 DIODE D31 2760253001 HZ15-2 DIODE	R1
D26 2760049008 1S2076 DIODE D27 2760200009 MV-11 DIODE D28 2760200009 MV-11 DIODE D29 2760200009 MV-11 DIODE D30 2760200009 MV-11 DIODE D31 2760253001 HZ15-2 DIODE	R1
D28 2760200009 MV-11 DIODE D29 2760200009 MV-11 DIODE D30 2760200009 MV-11 DIODE D31 2760253001 HZ15-2 DIODE	R1
D29 2760200009 MV-11 DIODE D30 2760200009 MV-11 DIODE D31 2760253001 HZ15-2 DIODE	R1
D30 2760200009 MV-11 DIODE D31 2760253001 HZ15-2 DIODE	R1
D31 2760253001 HZ15-2 DIODE	R1
1 D32 276D253D01 H715-2 DIODE 1	R1
Z/00253001 FIZ 15-2	R1

Ref. No.	Part No.	Part Name & Descriptions
D33	2760253001	HZ15-2 DIODE
D34	2760253001	HZ-15-2 DIODE 1S2076A DIODE
D41 D41	2760049011 2760220018	1\$2076A
D42	2760220018	HZ-24-1 DIODE
D43	2760200009	MV-11 DIODE
D44	2760200009	MV-11 DIODE
		RESISTORS
R05	2412012095	2.2 kohm ±2% ¼W CARBON FILM 2.2 kohm ±2% ¼W CARBON FILM
R06	2412012095 2412012095	2.2 kohm ±2% ¼W CARBON FILM 2.2 kohm ±2% ¼W CARBON FILM
R08	2412012095	2.2 kohm ±2% ¼W CARBON FILM
R13	2442021085	360 ohm ±5% ½W METAL OXIDE FILM
R14	2442021085 2452014040	360 ohm ±5% ½W METAL OXIDE FILM 10 kohm ±5% ½W METAL OXIDE FILM
R15 R16	2452014040	10 kohm ±5% ½W METAL OXIDE FILM
R17	2420203003	10M ohm ±10% 1/2W CARBON COMPOSIT
R18	2420203003	10M ohm ±10% ½W CARBON COMPOSIT
R19 R20	2442021069 2442021069	240 ohm ±5% ½W METAL OXIDE FILM 240 ohm ±5% ½W METAL OXIDE FILM
R21	2442021069	240 ohm ±5% ½W METAL OXIDE FILM
R22	2442021069	240 ohm ±5% 1/2W METAL OXIDE FILM
R27	2442013022	1.3 kohm ±5% 1W METAL OXIDE FILM 1.3 kohm ±5% 1W METAL OXIDE FILM
R28 R29	2442013022 2442021072	51 ohm ±5% W METAL OXIDE FILM
R30	2442021072	51 ohm ±5% ½W METAL OXIDE FILM
R35	2440050029	5.6 kohm ±5% 1W METAL OXIDE FILM
R36 R39	2440050029 2412068007	5.6 kohm ±5% 1W METAL OXIDE FILM 100 ohm ±5% 1W METAL OXIDE FILM
R40	2412068007	100 ohm ±5% 1W METAL OXIDE FILM
R45	2440033020	220 ohm ±5% 1W METAL OXIDE FILM
R46	2440033020	220 ohm ±5% 1W METAL OXIDE FILM 220 ohm ±5% 1W METAL OXIDE FILM
R47 R48	2440033020 2440033020	220 ohm ±5% IW METAL OXIDE FILM
R53	2440041025	1 kohm ±5% 1W METAL OXIDE FILM
R54	2440041025	1 kohm ±5% 1W METAL OXIDE FILM
R55 R56	2440041025 2440041025	1 kohm ±5% 1W METAL OXIDE FILM 1 kohm ±5% 1W METAL OXIDE FILM
R61	2440029021	100 ohm ±5% 1W METAL OXIDE FILM
R62	2440029021	100 ohm ±5% 1W METAL OXIDE FILM
R63	2440013024 2440013024	4.7 ohm ±5% 1W METAL OXICE FILM 4.7 ohm ±5% 1W METAL OXIDE FILM
R64 R65	2440013024	4.7 ohm ±5% 1W METAL OXIDE FILM 4.7 ohm ±5% 1W METAL OXIDE FILM
R66	2440013024	4.7 ohm ±5% 1W METAL OXIDE FILM
R67	2442007070	39 ohm ±5% ½W METAL OXIDE FILM 39 ohm ±5% ½W METAL OXIDE FILM
R68 R69	2442007070 2442007070	39 ohm ±5% ½W METAL OXIDE FILM 39 ohm ±5% ½W METAL OXIDE FILM
R70	2442007070	39 ohm ±5% %W METAL OXIDE FILM
R71	2442007070	39 ohm ±5% %W METAL OXIDE FILM
R72	2442007070	39 ohm ±5% %W METAL OXIDE FILM 39 ohm ±5% %W METAL OXIDE FILM
R73 R74	2442007070 2442007070	39 ohm ±5% ½W METAL OXIDE FILM 39 ohm ±5% ½W METAL OXIDE FILM
R75	2440013024	4.7 ohm ±5% 1W METAL OXIDE FILM
R76	2440013024	4.7 ohm ±5% 1W METAL OXIDE FILM 1 ohm/1 ohm ±5% 1W WIRE WOUND
R77	2432029000 2432029000	1 ohm/1 ohm ±5% 1W WIRE WOUND 1 ohm/1 ohm ±5% 1W WIRE WOUND
R79	2432029000	1 ohm/1 ohm ±5% 1W WIRE WOUND
R80	2432029000	1 ohm/1 ohm ±5% 1W WIRE WOU ND
R85	2442007038	100 ohm ±5% 1W METAL OXIDE FILM 100 ohm ±5% 1W METAL OXIDE FILM
R86 R87	2442007038 2442007038	100 ohm ±5% 1W METAL OXIDE FILM
R88	2442007038	100 ohm ±5% 1W METAL OXIDE FILM
R89	2442007038	100 ohm ±5% 1W METAL OXIDE FILM
R90 R91	2442007038 2442007038	100 ohm ±5% 1W METAL OXIDE FILM 100 ohm ±5% 1W METAL OXIDE FILM
R92	2442007038	100 ohm ±5% 1W METAL OXDE FILM
R99	2440022028	27 ohm ±5% 1W METAL OXIDE FILM
R100	2440022028	27 ohm ±5% 1W METAL OXIDE FILM 10 ohm ±5% 1W METAL OXIDE FILM
R101 R102	244001 7020 244001 7020	10 ohm ±5% 1W METAL OXIDE FILM 10 ohm ±5% 1W METAL OXIDE FILM
R103	2452014024	8.2 kohm ±5% 1/2W METAL OXDE FILM
R104	2452014024	8.2 kohm ±5% ½W METAL OXDE FILM
R105 R106	2452014037 2452014037	1.8 kohm ±5% ½W METAL OXDE FILM 1.8 kohm ±5% ½W METAL OXDE FILM
R106	2440013024	4.7 ohm ±5% 1W METAL OXDE FILM
R108	2440013024	4.7 ohm ±5% 1W METAL OX DE FILM

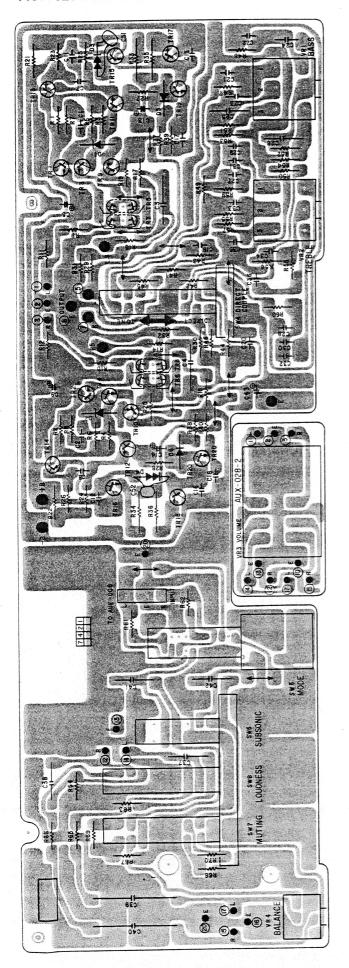
Post					
Ref. No.	Part No.	Part Name & Descriptions	Ref. No.	Part No.	Part Name & Descriptions
R109	2452014037	1.8 kohm ½W METAL OXIDE FILM	C40	2544060038	0.47 μF 100V ELECTROLYTIC
R110	2452014037	1.8 kohm ±5% ½W METAL OXIDE FILM	C41	2561017019	0.01 µF 10% 630V METALIZED
R111	2452014024	8.2 kohm ±5% ½W METAL OXIDE FILM	C42	2561017019	0.01 µF 10% 630V METALIZED
R112	2452014024	8.2 kohm 1/2W METAL OXIDE FILM	C43	2561017035	0.022 μF 10% 630V METALIZED
R113	2452014024	8.2 kohm ±5% ½W METAL OXIDE FILM	C44	2561017035	0.022 µF 10% 630V METALIZED 10 µF 35V ELECTROLYTIC
R114	2452014024	8.2 kohm ±5% ½W METAL OXIDE FILM	C45	2544035005	
R115	2452014037	1.8 kohm ±5% ½W METAL OXIDE FILM	C47	2521046004	
R116	2452014037	1.8 kohm ±5% ½W METAL OXIDE FILM	C48	2521046004	330 pF 5% 50V MICA FILM 10 µF 35V ELECTROLYTIC
R119	2452014037	1.8 kohm ±5% ½W METAL OXIDE FILM	C49	2544035005 2544035005	10 HF 35V ELECTROLYTIC
R120	2452014037	1.8 kohm ±5% ½W METAL OXIDE FILM 8.2 kohm ±5% ½W METAL OXIDE FILM	C50	2521050003	470 pF 5% 50V MICA FILM
R121	2452014024	8.2 kohm ±5% ½W METAL OXIDE FILM	C51 C52	2521050003	470 pF 5% 50V MICA FILM
R122	2452014024 2420203003	10M ohm ±10% ½W CARBON COMPOSIT	C52	2521042008	220 pF 5% 50V MICA FILM
R169 R170	2420203003	10M ohm ±10% ½W CARBON COMPOSIT	C54	2521042008	220 pF 5% 50V MICA FILM
R181	2412094000	1.2 kohm ±5% ¼W CARBON COMPOSIT	C55	2521022002	33 pF 5% 50V MICA FILM
R182	2412094000	1.2 kohm ±5% ½W CARBON COMPOSIT	C56	2521022002	33 pF 5% 50V MICA FILM
R187	2412002005	220 ohm ±5% ½W CARBON COMPOSIT	C57	2554078065	0.0047 µF ±5% 100V PLASTIC FILM
11107	2412002003	STANDING TYPE	C58	2554078065	0.0047 µF ±5% 100 V PLASTIC FILM
R118	2412002005	220 ohm ±5% ¼W CARBON COMPOSIT	C59	2521010001	10 pF 0.5 pF 50V MICA FILM
	12002000	STANDING TYPE	C60	2521010001	10 pF 0.5 pF 50V MICA FILM
R191	2412068007	100 ohm ±5% %W CARBON COMPOSIT	C61	2521081027	3 pF 0.5 pF 50V MICA FILM
R192	2412068007	100 ohm ±5% 1/4W CARBON COMPOSIT	C62	2521081027	3 pF 0.5 pF 50V MICA FILM
R195	2412068007	100 ohm ±5% 1/W CARBON COMPOSIT	C63	2544060038	0.47 HF 100V ELECTROLYTIC
R196	2412068007	100 ohm ±5% 1/4W CARBON COMPOSIT	C64	2544060038	0.47 µF 100V ELECTROLYTIC
R199	2412028021	1.6 kohm ±5% ¼W CARBON COMPOSIT	C65	2544060025	1 μF 100V ELECTROLYTIC
		STANDING TYPE	C66	2544060025	1 HF 100V ELECTROLYTIC
R200	2412028021	1.6 kohm ±5% %W CARBON COMPOSIT	C71	2521042008	220 pF 5% 50 V MICA FILM
		STANDING TYPE	C72	2521042008	220 pF 5% 50 V MICA FILM
R201	2420203003	10M ohm ±10% ½W CARBON COMPOSIT	C73	2554077008	0.001 µF 5% 100V PLASTIC FILM
R202	2420203003	10M ohm ±10% ½W CARBON COMPOSIT	C74	2554077008	0.001 µF 5% 100V PLASTIC FILM
R207	2440042024	1.2 kohm ±5% 1W METAL OXIDE FILM	C80	2544060038	0.47 µF 100V ELECTROLYTIC
R208	2440042024	1.2 kohm ±5% 1W METAL OXIDE FILM	C81	2554077008	0.001 µF 5% 100V PLASTIC FILM
R211	2412068007	100 ohm ±5% ¼W CARBON FILM	C82	2554077008	0.001 µF 5% 100V PLASTIC FILM
R212	2412068007	100 ohm ±5% ½W CARBON FILM	C83	2544024003	4.7 μF 25V ELECTROLYTIC
R213	2412140006	100 kohm±5% ¼W CARBON FILM	C84	2544024003	4.7 µF 25 V ELECTROLYTIC 1 pF 0.25 pF 50 V MICA FILM
R214	2412140006	100 kohm±5% ¼W CARBON FILM	C85	2521001007	
R215	2412060005	47 ohm ±5% ¼W CARBON FILM	C86	2521001007	1 pF 0.25 pF 50V MICA FILM 15 pF 5% 50V MICA FILM
R216	2412060005	47 ohm ±5% ¼W CARBON FILM 4.7 kohm ±5% ¼W CARBON FILM	C87	2521014007 2521014007	15 pF 5% 50V MICA FILM
R241	2412108006	4.7 kohm ±5% ¼W CARBON FILM	C88	2521014007	5 pF 0.5 pF 50V MICA FILM
R242	2412108006 2412079009	300 ohm ±5% ¼W CARBON FILM	C90	2521005003	5 pF 0.5 pF 50V MICA FILM
R243 R244	2412079009	300 ohm ±5% ¼W CARBON FILM	C99	2561017019	0.01 uF 10% 630V METALIZED
N244	2412079009	300 Olim £370 XXX CAMBON 112.00	C100	2561017019	0.01 µF 10% 630V METALIZED
		CAPACITORS			OTHER PARTS
C01	2544038002	100 µF 35V ELECTROLYTIC			
C03	2554078065	0.0047 #F ±5% 100V PLASTIC FILM		2220577201	P.W. BOARD
C04	2554078065	0.0047 #F ±5% 100V PLASTIC FILM	1	_	MUTING BOARD SUB ASS (SEE TABLE)
C05	2556075008	100 pF ±5% 50V PLASTIC FILM	i	2050126000	TERMINAL USED 4
C06	2556075008	100 pF ±5% 50V PLASTIC FILM		2090008146	JUMPER SHORT LEAD P=5mm USED 4
C07	2554084004	0.0022 µF ±5% 100V PLASTIC FILM		2090008133	JUMPER SHORT LEAD P=7.5mm USED 1
C08	2554084004	0.0022 µF ±5% 100V PLASTIC FILM		2090008120	JUMPER SHORT LEAD P=10mm USED 10
C09	2544038002	100 µF 35V ELECTROLYTIC		2090008117	JUMPER SHORT LEAD P=12.5mm USED 3
C11	2521008000	8 pF ±0.5 pF 50V MICA FILM		2090008104	JUMPER SHORT LEAD P=15mm USED 3 JUMPER SHORT LEAD P=20mm USED 4
C12	2521008000	8 pF ±0.5 pF 50V MICA FILM	1,504	2090008162	SEMI FIXED RESISTOR 100 0H M
C13	2521018003	22 pF ±5% 50V MICA FILM	VR01	2116025016	SEMI FIXED RESISTOR 100 CH M
C14	2521018003	22 pF ±5% 50V MICA FILM	VR02	2116025016	SEMI FIXED RESISTOR 100 CH M
C15	2544060025	1 μF 100V ELECTROLYTIC	VR03	2116025016 2116025016	SEMI FIXED RESISTOR 100 OH M
C16	2544060025	1 μF 100V ELECTROLYTIC	VR04		SEMI FIXED RESISTOR 100 CH M
C17	2521034003	100 pF ±5% 50V MICA FILM	VR05	2116027001	SEMI FIXED RESISTOR 1 KOHM
C18	2521034003	100 pF ±5% 50V MICA FILM	VR06	2116027001 2140029004	REED RELAY DC24V OPERAL
C19	2521050003	470 pF ±5% 50V MICA FILM 470 pF ±5% 50V MICA FILM	RL01 RL02	2140029004	REED RELAY DC24V OPERAL
C20	2521050003	0.001 µF ±5% 50V MICA FILM	LO1	2320017001	INDUCTOR
C21	2554077008 2554077008	0.001 µF ±5% 100V PLASTIC FILM	L01	2320017001	INDUCTOR
C22 C23	2521050003	470 pF ±5% 100V MICA FILM	102	2050087026	2P TERMINAL FOR TEST PONT
C23	2521050003	470 pF ±5% 100V MICA FILM		2050007020	3P CONNECTOR BASE
C25	2554078065	0.0047 µF ±5% 100V PLASTIC FILM		2050112069	6P CONNECTOR BASE
C26	2554078065	0.0047 #F ±5% 100V PLASTIC FILM		2034139013	3P CONNECTOR CORD FOR ESISTOR
C27	2554078065	0.0047 µF ±5% 100V PLASTIC FILM		2036064089	4P CONNECTOR CORD FOR , —B
C28	2554078065	0.0047 µF ±5% 100V PLASTIC FILM		2030221006	1P CONNECTOR CORD FOR CH SPOUT
C29	2554078065	0.0047 µF ±5% 100V PLASTIC FILM		2030221019	1P CONNECTOR CORD FOR ICH SPOUT
C30	2554078065	0.0047 µF ±5% 100V PLASTIC FILM		2036081004	4P CONNECTOR CORD FOR AMD
C31	2554078065	0.0047 µF ±5% 100V PLASTIC FILM			
		0.0047 µF ±5% 100V PLASTIC FILM		Muting Board	
C32	2554078065	0.00			
	2544060038	0.47 µF 100V ELECTROLYTIC		2220601009	P.W. BOARD
C32				2220601009 2050126000	P.W. BOARD TERMINAL

EQ. SERVO UNIT (PA-122)



EQ. SERVO UNIT PARTS LIST

,			
	Ref. No.	Part No.	Part Name & Descriptions
	SEMICONDUCTORS		
	IC01 IC02 D01 D02	2630133002 2630133002 2760253001 2760253001	μPC741(C) INTEGRATED CIRCUIT μPC741(C) INTEGRATED CIRCUIT HZ15-2 DIODE HZ15-2 DIODE
			RESISTORS
	R01 R02 R03 R04 R05 R06 R07 R08	2412118009 2412118009 2412113004 2412113004 2412108006 2412108006 2412104000 2412104000	12 kohm ±5% ¼W CARBON FILM 12 kohm ±5% ¼W CARBON FILM 7.5 kohm ±5% ¼W CARBON FILM 7.5 kohm ±5% ¼W CARBON FILM 4.7 kohm ±5% ¼W CARBON FILM 4.7 kohm ±5% ¼W CARBON FILM 3.3 kohm ±5% ¼W CARBON FILM 3.3 kohm ±5% ¼W CARBON FILM
			CAPACITORS
	C01 :02 :03 :C04 :C05 :C06	2561017019 2561017019 2544005006 2544005006 2544015009 2544015009	0.01 μF ±10% 630V METALIZED 0.01 μF ±10% 630V METALIZED 330 μF 6.3V ELECTROLYTIC 330 μF 6.3V ELECTROLYTIC 10 μF 16V ELECTROLYTIC 10 μF 16V ELECTROLYTIC
			OTHER PARTS
	VR1 VR2	2220622004 2050112030 2090008146 2090008120 2090008117 EP-5462H13 EP-5462H13	P.W. BOARD 3P CONNECTOR BASE JUMPER SHORT LEAD P=5mm USED 2 JUMPER SHORT LEAD P=10mm USED 1 JUMPER SHORT LEAD P=12.5mm USED 2 SEMI FIXED RESISTOR 10 KOHM SEMI FIXED RESISTOR 10 KOHM



Ref. No.	Part No.	Part Name	& Descriptions	
SEMICONDUCTORS				
TR01 TR02 TR03 TR04 TR05 TR06 TR07 TR08 TR09 TR10 TR11 TR12 TR13 TR14 TR15 TR16 TR17 TR18 TR19 TR20 D01 D02 D03 D04	2730198015 2730198015 2730198015 2730198015 2750024017 2750024017 2750024017 2750024017 2710102005 2710102005 2710102005 2710102005 2710102005 2730198002 2730198002 2730198002 2730198002 2730198002 2730198002 2730198002 2730198002 2730198002 2760185001 2760200009 2760200009	μPA68H(L) FIELD μPA68H(L) FIELD μPA68H(L) FIELD 2SA1015(Y) 2SA1015(Y) 2SA1015(Y) 2SA1015(Y) 2SA1015(Y) 2SA1015(Y) 2SC1815(Y) 2SC1815(Y) 2SC1815(Y) 2SA1015(Y) 2SA1015(Y) 2SA1015(Y) 2SA1015(Y) 2SA1015(Y) 2SC1815(Y) 4S	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR EFFECT TRANSISTOR EFFECT TRANSISTOR EFFECT TRANSISTOR EFFECT TRANSISTOR DIODE DIODE DIODE	
D05 D06	2760171028 2760171028	HV-23G(YL) HV-23G(YL)	DIODE	
		RESISTORS		
R01 R02 R03 R04 R05 R06 R07 R08 R09 R10 R11 R12 R13 R14 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30 R31 R32 R33 R34 R35 R36 R37 R38 R38 R38 R38 R38 R38 R38 R38 R38 R38	2412244902 2412244902 2412244902 241224990 2412259900 2412202902 2412219908 2412219908 241229909 2412275900 2412275900 2412248908 241213004 2412248908 241213004 2412248908 2410182008 2410182008 2412195909 2412195909 2412195909 2412195909 2412195909 2412224906 2412224906 2412229902 2412275900 2412275900 2412275900 2412275900 2412275900 2412275900 2412275900 2412275900 2412275900 2412275900 2412231902 2412231902 2412231902 2412231902 2412231902	5.1 kohm ±5% ¼W 5.1 kohm ±5% ¼W 5.1 kohm ±5% ¼W 5.1 kohm ±5% ¼W 22 kohm ±5% ¼W 91 ohm ±5% ¼W 91 ohm ±5% ¼W 470 ohm ±5% ¼W 470 ohm ±5% ¼W 100 kohm±5% ¼W 100 kohm±5% ¼W 100 kohm±5% ¼W 100 kohm±5% ¼W 7.5 kohm ±5% ¼W 1.5 kohm ±5% ¼W	CARBONF I LM METAL (X IDE FILM CARBONF I LM CARBONF I LM CARBONF I LM	

(Con.)

(Con.)		
Ref. No.	Part No.	Part Name & Descriptions
R40	2412231902	1.5 kohm ±5% ¼W CARBON FILM
R41	2412203901	100 ohm ±5% ¼W CARBON FILM
R42	2412203901	100 ohm ±5% ¼W CARBON FILM
R43	2412228902	1.1 kohm ±5% ¼W CARBON FILM
R44	2412228902	1.1 kohm ±5% ¼W CARBON FILM
R45	2412227903	1 kohm ±5% ¼W CARBON FILM
R46	2412227903	1 kohm ±5% ¼W CARBON FILM
R47	2412262900	30 kohm ±5% ¼W CARBON FILM
R48	241 2262900	30 kohm ±5% ¼W CARBON FILM
R49	2412227903	1 kohm ±5% ¼W CARBON FILM
R50	2412227903	1 kohm ±5% ¼W CARBON FILM
R51	2412262900	30 kohm ±5% ¼W CARBON FILM
R52	2412262900	30 kohm ±5% ¼W CARBON FILM
R53	241 2245901	5.6 kohm ±5% ¼W CARBON FILM
R54	241 2245901	5.6 kohm ±5% ¼W CARBON FILM
R55	2412236907	2.4 kohm ±5% ¼W CARBON FILM
R56	2412236907	2.4 kohm ±5% ¼W CARBON FILM
R57	2420203003	10M ohm ±10% %W CARBON COMPOSIT
R58	2420203003	10M ohm ±10% ¼W CARBON COMPOSIT
R59	2412245901	5.6 kohm ±5% ¼W CARBON FILM
R60	2412245901	5.6 kohm ±5% ¼W CARBON FILM
R61	2412251908	10 kohm ±5% ¼W CARBON FILM
:62	2412251908	10 kohm ±5% ¼W CARBON FILM
R63	2412238905	3 kohm ±5% ¼W CARBON FILM
R64	2412238905	3 kohm ±5% ¼W CARBON FILM
R65	2412255904	15 kohm ±5% ¼W CARBON FILM
R66	241 2255904	15 kohm ±5% ¼W CARBON FILM
R67	2412243903	4.7 kohm ±5% ¼W CARBON FILM
R68	2412243903	4.7 kohm ±5% ¼W CARBON FILM
R69	2412265907	39 kohm ±5% ¼W CARBON FILM
R70	2412265907	39 kohm ±5% ¼W CARBON FILM
		CAPACITORS
C01	2554077040	0.0015 µF ±5% 100V PLASTIC FILM
C02	2554077040	0.0015 µF ±5% 100V PLASTIC FILM
C02	2561018005	0.1 µF ±10% 250V METALIZED
C04	2561018005	0.1 µF ±10% 250V METALIZED
C05	2544035005	10 µF 35V ELECTROLYTIC
C07	2521034003	100 pF ±5% 50V MICA FILM
C08	2521034003	100 pF ±5% 50V MICA FILM
C09	2544035005	10 #F 35V ELECTROLYTIC
C11	2521034003	100 pF ±5% 50V MICA FILM
C12	2521034003	100 pF ±5% 50V MICA FILM
C13	2544044009	1 HF 50V ELECTROLYTIC
,14	2544044009	1 µF 50V ELECTROLYTIC
C15	2521034003	100 pF ±5% 50V MICA FILM
C16	2521034003	100 pF ±5% 50V MICA FILM
C17	2521017004	20 pF ±5% 50V MICA FILM
C18	2521017004	20 pF ±5% 50V MICA FILM
C19	2521050003	470 pF ±5% 50V MICA FILM
C20	2521050003	470 pF ±5% 50V MICA FILM
C21	2521014007	15 pF ±5% 50V MICA FILM
C22	2521014007	15 pF ±5% 50V MICA FILM
C23	2561020006	0.015 µF ±5% 630V METALIZED
C24	2561020006	0.015 µF ±5% 630V METALIZED
C25	2554081065	0.082 µF ±5% 100V PLASTIC FILM
C26	2554081065	0.082 µF ±5% 100V PLASTIC FILM
C27	2521030007	68 pF ±5% 50V MICA FILM
C28	2521030007	68 pF ±5% 50V MICA FILM
C29	2521034003	100 pF ±5% 50V MICA FILM
C30	2521034003	100 pF ±5% 50V MICA FILM
C31	2556103006	0.0015 µF ±5% 50V PLASTIC FILM
CO I	2000103000	0.00 (0 gr 23/0 00) CAO (10) TEM

Ref. No.	Part No.	Part Name & Descriptions
C32	2556103006	0.0015 µF ±5% 50V PLASTIC FILM
C33	2521014007	15 pF ±5% 50V MICA FILM
C34	2521014007	15 pF ±5% 50V MICA FILM
C35	2554079064	0.012 µF ±5% 100V PLASTIC FILM
C36	2554079064	0.012 µF ±5% 100V PLASTIC FILM
C37	2554081081	0.1 µF ±5% 100V PLASTIC FILM
C38	2554081081	0.1 µF ±5% 100V PLASTIC FILM
C39	2556022006	750 pF ±5% 50V PLASTIC FILM
C40	2556022006	750 pF ±5% 50V PLASTIC FILM
C41	2554082048	0.18 µF ±5% 100V PLASTIC FILM
C42	2554082048	0.18 µF ±5% 100V PLASTIC FILM
C43	2544015009	10 µF 16V ELECTROLYTIC
C51	2561016007	0.068 µF ±10% 400V METALIZED
C52	2561016007	0.068 μF ±10% 400V METALIZED
		OTHER PARTS
	2220578006	P.W. BOARD
1	2050112030	3P CONNECTOR BASE
	2090008120	JUMPER SHORT LEAD P=10mm USED 2
VR01	2110241027	VARIABLE RESISTOR 100 KOHM FOR
		BASS
VR02	2110239002	VARIABLE RESISTOR 100 KOHM FOR
	0440040404	TREBLE VARIABLE RESISTOR 50 KOHM FOR
VR03	2110240101	VOLUME
VR04	211024200	VARIABLE RESISTOR 100 KOHM FOR
VN04	211024200	BALANCE
SW04	2124203008	1P PUSH SWITCH FOR DIRECT
SW05	2120159004	ROTARY SWITCH (A) FOR MODE
SW06	2124204007	3P PUSH SWITCH FOR FIL.
SW07	2124204007	3P PUSH SWITCH FOR MUT.
SW08	2124204007	3P PUSH SWITCH FOR LOUD.
	2030170021	1P CONTACT ASS
	2034131040	3P CONNECTOR CORD FOR +, -B
1	2040070001	6P CONNECTOR CORD FOR TONE OUT
1	1	

Means important safety item, which must be replaced, when necessary, by a part specified or meeting the specification by the manufacturer.

WIRING DIAGRAM

